je Kining Journal, LWAY AND COMMERCIAL GAZETTE:

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

[The MINING JOURNAL is Registered at the General Post Office as a Newspaper, and for Transmission Abroad.]

No. 2038.-Vol. XLIV.

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LONDON, SATURDAY, SEPTEMBER 12, 1874.

SUPPLEMENT. | SPRICE SIXPENCE. | SIXPENCE. | PER ANNUM, BY POST, £1 4s.

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Speculative Accounts opened for the Fortnightly Settlement.

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Applications are invited for the undermentioned Shares at prices annexed, and Offers for those lots where no prices are named:—

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Offers for those lots where no prices are named:—

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Offers

, Holders wishing to dispose of Shares may avail themselves of the above Medium, free of charge. Particulars of Shares for Insertion (with lowest limits) should be delivered not later that Four P.M. on Fridays.

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Consols, Foreign Bonds, Railways, and every security quoted on 'Change bought
and sold. Fortnightly accounts opened.

Bankers: London and Westminster, and City Bank.

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20 Birdseye, £23%. 100 Gold Run, 6s. 15 Flagstaff.

SELLER_

15 Bilson & Crump, £7%
20 Briggs (Henry), £281%
10 Thorp's Gawber, £15%
45 Welsh Freehold, £3%
40 Glaisdale, 20s.
5 Nant-y-Glo.

20 Cardiff & Swan., £3¾.
40 Clee Hill, 7s. 6d.
20 Whitehaven.

30 Marke Valley, 14s. 3d.
15 Cedar Creek.
40 Malpaso. Thorp's Gawber pay 40 per cent. Bilson and Crump, 30 per cent. These and Balsdale, with Welsh Freehold, will pay well to buy.

OFFER WANTED for a few Denbighshire and New South Merllyn.

MR. WILLIAM WAD ADDRESS HOUSE, 95, BISHOPSGATE STREET WITHIN, E.C., DEALS in ALL KINDS of STOCKS and SHARES, for each or the accordance. WARD

MR, HENRY MANSELL, STOCK AND SHARE DEALER, 14, GREAT WINCHESTER STREET, LONDON, E.C. H. M. recommends the purchase of Colorado Terrible shares.

M. THOMAS THOMPSON, Jun., 1, PALMERSTON BULLDINGS, BISHOPSGATE STREET, LONDON, E.C.

Some valuable hints as to the purchase of mining shares will be found in Mr. Thompson's "Investment Circular" for September now ready, post free, price 6d. MESSRS. ENDEAN AND CO., STOCK AND SHARE DEALERS. 85. GRACECHURCH STREET, LONDON, E.C.

Government and every negociable Stocks dealt in for eash or account. Order we are immediate application and purchase of the Bampfylde and Llan was shares. A rise in price is inevitable.

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The following are the latest prices at which business could be done. Holders of mining shares desiring a market quotation for their stock can have their application answered in this list if received not later than Four P.M. on Fridays:—

1	Buyers. f	Sellers.]	Buyers.	Sellers.
Bampfylde	£ 2	€ 234	Perkins Beach	2s.6d.	58.
Bog	7s. 6d	98.	Prince of Wales	12s. 6d	15s.
Birdseye Creek	214	25%	Providence	3 .	31/
Carn Brea	53	55	Richmond	614.	61/2
Chapel House Colliery	4	41/6	Roman Gravels	14 .	141/4
Clee Hill Colliery	98	108.	Rosewall Hill	5s	6s.
Cook's Kitchen	914	934	South Aurora	12s.6d.	15s.
Devon Great Consols	158	17s.6d.	South Carn Brea	2 .	21/
Ding Dong	7	8	South Condurrow	31/4.	834
Dolcoath	44	46	South Roman Gravels	148.	. 16s.
Eberhardt			Sweetland Creek	356.	374
East Lovell			Tankerville	7 .	734
East Van	15s	20s.	Tincroft	30 .	31
Emma	13/	2	Tyllwyd		
Flagstaff			Utah		
Great West Van	158	20я.	Van	22	25
Ladywell	23/	276	Van Consols	33/	. 4
Marke Valley	17s.6d	208.	West Chiverton	2 .	21/4
New Consols	11/	11/4	West Maria	8s	109,
Parys Mountain	68	88.	West Tolgus	65	. 70
Pannerley	1	11/	Wheal Grenville	33/	4
Penstruthal	11s	13s.	Wh. Kitty (St. Agnes)	634.	

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30 Almada, 11s. 9d. 29 Gt. West Van, £1.
30 Bampfylde, £2½. 20 Herodsfoot, £3.
38 Bellavista, £15.
25 Birdseve Creek, £2½. 10 Ladywell, £2½.
26 Carn Brea, £54. 50 Lovell, £1½.
30 Chapel House, £4.
26 Malabar, 13s. 9d.
45 Bieras Buttes, £2.
46 Bieras Buttes, £2.
47 Bieras Buttes, £2.
48 Bieras Buttes, £2.
49 Bieras Buttes, £2.
49 Bieras Buttes, £2.

39 Cedar Creek, £174.
30 Chapel House, £4.
30 Chapel House, £4.
30 Cardiff and Swan., £3
50 Cathedral, 17s. 6d.
3 Dolcoath, £44.
10 Emma, £17\$.
10 East Lovell, £11.
30 East Grenville, 8s. 9d.
25 East Garadon, £1.
50 East Basset, £3.
20 Flagstaff, £37\$.
5 Great Laxey, £11.
35 Grean Hurth, £6.
25 Glasgow Caradon, £1

1, LÓNDON, can do BUSI mission:—
20 Gt. West Van. £1.
20 Herodsfoot. £3.
28 Hingston Down, £1.
10 Ladywell, £2½.
50 Last Chance, £1.
50 Lovell, £1½.
26 Malabar, 13s. 9d.
60 Malpaso, 12s. 3d.
50 Mid-Moonta, £3.
30 New Quebrada, £3.
12 Newfoundland, £7.
50 Old Treburgett, 12s 6d
50 Old Batholes, 5s. 6d.
50 Pennerley, £1½.
40 Plynlimmon, 5s. 9d.
20 Providence, £3½.
80 Penstruthal, 11s. 9d.
80 Port Phillip, 8s. 6d.

50 Prince of Wales, 128 33 9 Richmond, £6½, 50 Rookhope, 118, 9d. 45 Rosewall Hill, 6s. 3d. 20 Russia Copper, £2½, 40 Sierra Buttes, £2. 50 South Aurora, 8s. 6d. 20 So. Carn Brea, £2. 25 So. Roman Gra., 10s 6 20 Tankerville, £7. 28 So. Roman Gra., 10s 6 20 Tankerville, 27. 8 Thornhill Reef, 15s. 10 Thorp's Gawber, £15. 30 Tecoma, 10s. 6d. 30 Van Consols, £23/. 50 West Chiverton, £2. 30 Wheal Uny, £15/. 70 West Maria, 8s. 6d. 5 West Basset, £8.

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30 Birdseye, 51s. 3d.
30 Bordseye, 51s. 3d.
30 Bordseye, 51s. 3d.
30 Landarmon, 24s, 9d.
30 Cardiff & Swan., £35/5.
50 Borg, 10s.
30 Cardiff & Swan., £35/5.
50 Chapel House Col.£4/6.
65 Malabar, 15s. 6d.
70 Chontales, 12s. 9d.
66 Malabar, 15s. 6d.
70 Codar Croek, 33s.
60 Clee Hill Colliery.
100 New Pacific.
50 Cook's Kitchen, £93/4.
40 Don Pedro, 3s. 9d.
40 Emma, 37s.
50 Ebbw Vale.
50 Ebbw Vale.
50 Ebbw Vale.
50 Ebbw Tale.
51 Ebbw Tale.
51 Ebbw Tale.
52 Ebbw Tale.
53 Ebbw Tale.
54 Flagstaff, £3½.
55 Ebbw Tale.
56 Ebbw Tale.
57 Ebbw Tale.
58 Ebbw Tale.
59 Ebbw Tale.
50 Ebbw Tale.
51 Ebbw Tale.
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54 Flagstaff, £3½.
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35 So. Carn Brea, 43s.
60 South Rom. Gravels.
30 Sweetland, £3 8s. 9d.
45 Thornhill Reef, 10s.
10 Thorp's Gawber, £15½
100 Tecoma 11s. 9d.
50 Tyllwyd, 21s. 8d.
25 Tankerville, £7½.
45 United Bituminous.
50 Utah, 9s.
5 Van, £23.
70 Van Consols, 51s.
40 Wedgwood Coal.
40 Wedgwood Coal.
40 Wedsh Freebd., £2 18 9
30 W. Tankerville, 23s 9d.
80 West Maria, 8s. 6d.
50 West Mostyn.
35 West Esgair Lie, 38s 9
30 West Gorland.
10 Wheal Ritty.
10 W. Chiverton, 28s. 9d.
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Capital £25,000, in 25,000 Shares of £1 each.

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See manager's report.

OLD TALARGOCH LEAD MINING COMPANY (LIMITED)

FLINTSHIRE.

Capital £100,000, in 10,000 Shares of £10 each.

Of which there are only about 4000 Shares available, as 4000 are to be allotted pursuant to the purchase agreement, and about 2000 having been already pursuant to the purchase agreement, and about 2000 having been already applied for by the directors, their friends, and the old shareholders.

PAYABLE—21 on application, £1 on allotment, £3 in three months from date of allotment, two further calls of £1 each at intervals of not less than two months. It is estimated that will put the mine in perfect working order, and leave about £18,000 available capital.

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WILLIAM SMITH, Esq., Meliden, near Rhyl.

JOHN S. BLEASE, Esq., Public Accountant, Liverpool.

Mr. HY. AUSTIN, 33, Manchester Chambers, Market street,
Manchester; and 37A, King street, Oldham.
Mr. ALEXANDER MORISON, 2, India Buildings, Liverpool.

and will be represented at the board for mirre years by two directors and about by the liquidators.

As the list will only remain open for a limited time, and there are only about 4000 shares to issue, parties wishing to avail themselves of the opportunity of becoming shareholders should do so at once by forwarding the form accompanying the prospectus properly filled up, with a remittance therewith of £L per share, to the brokers, secretary, or any of the bankers of the company. In case no allotment is made the deposit will be at once returned, and if a smaller number of shares is allotted than applied for the balance of the deposit will be applied on account of the sum due on allotment, and the su-plus, if any, returned to the applicant.

LLWYN TEIFY LEAD MINING COMPANY

(LIMITED).
Incorporated under the Companies Acts, 1862 and 1867.
Capital £15,000, in 15,000 shares of £1 each. Fully paid-up, without further call or liability. Share-warrants to bearer issued for shares on request of any shareholder on

payment of stamp duty only. DIRECTORS.

JOHN WILLIAM WILLIAMSON, Warwick-road, Paddington,

—CHAIRMAN.

CHARLES MORRIS, Bryanston-street, Portman-square.

THOMAS HAZLEDINE, The Parks, Evesham.

HUBERT BARNES RYE, Canonbury Park South.

GEORGE TOMKINS, F.R.Hist.S., 7, Finsbury-square.

MANAGER-T. P. THOMAS, on the min NATIONAL PROVINCIAL BANK OF ENGLAND, Aberystwith.

SECRETARY—E. SILLIFANT.

offices. 1, GRESHAM BUILDINGS, BASINGHALL STREET, LONDON.

Prospectuses, forms of application for shares, and all information may be obtained at the offices of the company.

PROSPECTUS.

PROSPECTUS.

The objects of this company are to purchase and work an extensive mineral property known as the Liwyn Teify Lead Mine, situate in the county of Cardigan, about 14 miles from Aberystwith.

This mine, which is in the richest mining district of the county, is very large, being about one mile long on the course of the lodes, and one mile wide, and its geological formation is all that can be desired.

The sett is held as to the principal part under lease for 21 years, from March 25th, 1870, and the remainder under a continuous tack-note, at a royalty of one-fourteenth. The deep level in this mine is 50 fms. from surface, and as the adjoining mines to the west drain this property for fully 70 fms. below this level, no pumping machinery will be necessary for many years, whilst ample water-power exists for working the drawing, crushing, and dressing machinery at all seasons of the year. The ground although easy for working is yet of a character to require but little timber in the shafts and levels.

The sett contains several large and powerful lodes, one of which, known as the Bwleh Gwyn South Lode, has been worked upon and proved down to 50 fms., at which depth fine courses of rich lead ore have been discovered, and are ready to be taken away at a very small cost, and from which a parcel of 10 tons has been dressed and sold.

This lode has produded many thousand tons of lead ore in the adjoining mines, where it is found to be included.

taken away at a very small cost, and from which a parcel of 10 tons has been dressed and sold.

This lode has produced many thousand tons of lead ore in the adjoining mines, where it is found to be richer in the bottom or 86 fm. level than above, thereby showing that it improves in depth, and promising well for the future of this company, more particularly as this lode at about 50 fms. further east forms a junction with four other powerful lodes, at which point great deposits of lead ore may confidently be expected.

The other lode, which is known as Pryce's lode, has been proved for a short distance by an adit level and by a sink below the level, in both of which good courses of lead ore are found, and from which a splendid pile is now to be seen at the surface. This lode is of the most promising character, and is well situated for laying open large bodies of ore ground, as by extending the level into the hill a back of 100 fms. in height will be obtained for above a mile in length.

It is estimated that £3000 will suffice for opening and timbering shafts and for the purchase and erection of a water-wheel and machinery for hoisting, crushing, and dressing the ore; upon completion of which regular and profitable returns are expected to be made.

In anticipating the profits likely to be made the dirictors may be thought too sanguine; therefore they beg to draw attention to the fact that the Lisburne Mines, which are about two miles to the south-west of this mine, have upon an outlay of £7500 given in dividends £225,400, are still paying dividends, and likely to continue to pay for many years to conte.

Mr. ALEXANDER MORISON, 2, India Building, Liverpeel.

Mr. ALEXANDER MORISON, 2, India Building, Liverpeel.

Mr. ALEXANDER MORISON, 2, India Building, Liverpeel.

The company is formed for the purpose of punchesing and acquiring the property, minding there's, name district, paint, and offered to the Tatrage, building, Liverpeel, and the company is formed for the purpose of punchesing and extending the levels, supplying the sevent self-aring mediates and several name of the purpose of the punchesis and self-are relation of exposes, which will materially add to the divident, and for such clother diplets and self-are relation of exposes, which will materially add to the divident, and for such clother diplets and purposes a spager in the Memerandum of Associated the self-are relationally and the self-are relat

Livyn Teify Mine.—The Liwyn Teify is the champion lode of Cardiganshire, varying in size from 30 ft. to 60 ft. wide, and has been worked for many miles in length, and produced immediately to the west of you nearly one milion sterling worth of lead ore; and having to the east of you the West Eggir Lie, the Great West Van, and at its eastern extremity the Van Mine. Nowhere where the lode

has been seen or worked are there finer indications for making the bunches of ore than in this grant, as there are no less than four voice. bunches of ore than in this grant, as there are no less than four veine promite which unite and form a junction with the Llwyn Teify lote the mountain called Bwlch Gwyn, and these continue together to the your sett, the River Rheicol, eastward nearly three fourths, of a middle with these junctions that success in opening mines in this district has obtained, and rever in one instance, to my knowledge, failed in owere to give you a more lengthened report, I could add no more than here expressed as to my opinion of your opening out one of the richest mines ever worked in Cardiganshire. I have, therefore, merely to a are well situated as to water for working any machinery required and that a moderate amount of capital judiciously laid out in develop perty will undoubtedly end in the success I have predicted for it.

Goginan, Aberystwith, 13th May, 1874.

Llwyn Teifu Mine.—I have been the success it is the second of the contraction.

perty will undoubtedly end in the success I have predicted for it.

Goginan, Aberystwith, 13th May, 1874,

ABSALOM FRANCE

Liwyn Teify Mine.—I have been through the old workings on the Bwise of ode in this mine. I find the soft part of the lode only has been taken awy by ancients, and from the trials I have made in the various places on the normal part I have no doubt of a very large body of rich ore being with and part I have no doubt of a very large body of rich ore being with and workings I find is orey for the whole depth. The 50 fm. level held with the who workings I find is orey for the whole depth. The 50 fm. level held with the whole of the short 70 fathoms on the south part of the olde and communicated with the what hereby draining and ventilating this part of the mine. To prove the rector, see now why the whole of the ground above this should not be equally producing from I to 1/1½ ton of rich lead ore per fathom. I, therefore, see now why the whole of the ground above this should not be equally producing from I to 1/1½ ton of rich lead ore per fathom. I, therefore, see now why the whole of the ground above this should not be equally producing from I to 1/1½ ton of rich lead ore per fathom. I, therefore, see now why the whole of the ground above this should not be equally producing from I to 1/1½ ton of riven in soft and disordered ground is should pushed on into more settled ground with all speed. This lode is to be seen at a face for a great width—50 to 60 feet—and there is no knowing what may be to by cross-cutting through the whole of the lode. The south lode which is about 50 feet and spots of lead ore; and I have no doubt in a few fathoms west about 12 fm. 7 fms. of which 1 rave been productive of lead ore, which is above to seen the surface; this ore speaks for itself. The last 5 fms. have produced good hes and spots of lead ore; and I have no doubt in a few fathoms we shall be goular. A sink has been commenced below this level to see if the ore holds down in the stream of the second proving a

To the Directors of the Llwyn Teify Lead Mining Company (Limited), GENTLEMEN,—I hereby request you to allot me shares of £1 esh is above company, and I agree to accept the same, according to the terms of prospectus. Name (in full) Address.... Signature.....

TECHNICAL EDUCATION-No. V.

THE NOVA SCOTIAN SCHOOL OF CIVIL ENGINEERING.

The efforts made during the past few years to arouse the North cotians from that distressing apathy which had proved so obstruc tive both to their educational and industrial progress have not been fruitless, and it may now reasonably be hoped that the time is no far distant when the mining and civil engineering professions will be as usefully employed in Nova Scotia as they already are in Vie be as usefully employed in Nova Scotia as they already are in the toria and New South Wales. That Nova Scotia is becoming recomised as a promising and legitimate field for the employment a British capital cannot be doubted, and nothing can be better alculated to command the confidence of capitalists than to prove them that it is practicable to place the management of the concern in which they are interested in the hands of competent and reliable engineers who are their own fellow-subjects, and possess that ample local knowledge without which any large amount of successions. engineers who are their own fellow-subjects, and possess that ample local knowledge without which any large amount of success as scarcely be hoped for. It is the appreciation of these facts that had led to the formation of the School of Civil Engineering in connection with the University of King's College, Windsor, Nova Scotia, and the adjoining provinces will gladly avail themselves of it for secusing to their sons that sound professional education thus broughts closely within their reach. That the course may be thrown open the largest possible number, engineering students are permitted to matriculate without undergoing an examination in the classical subjects required from students in arts, so that candidates for the diploma of C.E. have great facilities for entering upon the three year course of study which, supplemented by the passing of two university examinations, will entitle them to that distinction.

The curriculum is quite stiff enough to ensure thorough recomition

course of study which, supplemented by the passing of two university examinations, will entitle them to that distinction.

The curriculum is quite stiff enough to ensure thorough recognition of the honour attaching to the gaining of the diploma, and is at a same time eminently practical in character. The first year's course embraces elementary mathematics, chemistry, experimental physics, one modern continental language, geometrical drawings, and office work. During the second year the studies include advanced mathematics, mathematical physics, mineralogy or geology, civil engineering, office work and field work. And the third year is devoted to applied natural philosophy, civil engineering, office work, field work geology or mineralogy, practical chemistry, and to engineering excursions. When a student is competent, through knowledge previously acquired, to satisfy the College board in the subjects of the first years course the time necessary to qualify for the diplomal proportionably reduced; but no student can enter upon the third year's course until he has satisfied the examiners in the subjects of the previous two years. The elementary course of mathematic comprises the first six books of Euclid, arithmetic, algebra, including the usual rules to the end of quadratics, proportion, binomial thoerem for positive integral exponents, geometrical and arithmetical progression, and the nature and use of logarithms, plane trigonometry to enable the student to solve all cases of triangles; and the advanced course comprises the theory of equations, plane and spletical trigonometry, analytical geometry as far as equations of the second degree, conic sections, and the differential and integral excursions. The first of the two examinations which have to be passed to qualify for the diploma includes both courses of mathematics, experimental physics, mensuration, levelling, mapping, and a modern continental language; whilst the second examination includes examination includes and a modern continental language; whilst the

qualify for the diploma includes both courses of mathematics, at perimental physics, mensuration, levelling, mapping, and a moder continental language; whilst the second examination includes gineering, mensuration, levelling and mapping, mathematical physical phys

stitution. Considering that the School of Civil Engineering had just been finally established, the address delivered at the encenia just referred to on "The Profession and Duties of a Mining Enginer, by a member of the Board of Governors—Mr. John Rutherford, M.E., a member of the North of England Institute of Mining and Mechanical Engineers—was particularly appropriate. In comestion with the University there is the General Williams prize for Mineralogy applied to Mining, and it naturally touched the dignity of Mr. Rutherford, himself a mining engineer, to find that two only of those who have competed for it have selected an occupation of profession in which their attainments in connection with it will be practically exercised, and in pointing out the desirability of alternations. practically exercised, and in pointing out the desirability of altering this state of things he very properly expressed the hope that the present competitors have been actuated by a higher motive than that of the simple though praiseworthy design to obtain knowledge of these subjects, or by the creditable, though probably transient eclat of success. A love of the sciences connected with art of mining, and the intention to make the practice of it the business of his life had, he hoped, spurred each of them to exertion, and stimulated the desire to obtain the prize; and this less for its raise practically exercised, and in pointing out the desirability of alter art of mining, and the intention to make the practice of the mess of his life had, he hoped, spurred each of them to exertion, and stimulated the desire to obtain the prize; and this less for its mile than for the passport with which, possessing it, he leaves the college gates, and enters on the practical pursuit of a favourite study. That such a result would attend the competition, that from Kings College would proceed the future managers of collieries and mine in Nova Scotia was, doubtless, the object of the eminent founded the prize, and Mr. Rutherford's address was well calculated to all

erring to owledge of often suppose ordinary intelit it requires for scientific skill mends the stu ands the sto ighly pract but the min ing this the ible to their important, if the control of doing every to the regulation the one from the control of the contr r or sugge hem in the co mpetency of ys. And the ybe obtain peration. It nportance in sing the other ther his skill ience, or not all tha t is not all the rill become ac nowledge; the ntering on the pt to apply the

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dollars and combining the rford rer ted to ther nical educa on of a mi cted to ta mine. A ce n, so that y wked balance eral mar itively, the wider their con casion may ith the emplo ht to make t ly and demand t without s ke their soci ire to take co milies, make ge the deservi their dwellin vice. Give t

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> al skill for its Province is i are yet of ore, compar y, and a cor ired. The pro more than as during the at many of the y the foundation er that shoul in, and the l ow, there is a ed up by the

Dortio nbt that it in the realisation of that object by endeavouring to induce compe-

in the realisation of that object by endeavouring to induce competitors to enter into the profession of a mining engineer. Sketching the duties of a mining engineer, and suggesting the Sketching the duties of a mining engineer, and suggesting the sketching the duties of a mining engineer, and suggesting the sketching to the character of the examination papers implying a low-ledge of geology, mineralogy, metallurgy, chemistry, and, low-ledge, wisely recompetent in the successful pursuit the application not only of the supposed that mining is a simple art which any person with original states and low-ledge of the operation carried on in and numbly practical knowledge of the operation carried on in and low-ledge in the successful pursuit to the acquisition of a thoughly practical knowledge of the operation carried on in and shout the mines, observing that in order to have an opportunity of doing this they should on leaving college connect themselves with some competent mine manager for a period of not less than three years. During that time they should devote as much of it as possible to their underground studies. Every operations in the mine should receive their attention, however humble or apparently unhould receive their ing the other, though a brief experience of each will not weaken ther his skill or his judgment, but what is desirable is as large an mount as possible of that sort of knowledge which is recognised the knack of doing a thing, and which is only got by personal operience, or keen observation. And this knowledge of how to do tis not all that they will acquire by this attention to details; they fill become acquainted with another important item of mining nowledge; they will learn what it costs to do it, and will find on mering on their duties as managers that their employers are very to apply this test of their capabilities, and to estimate their

dollars and cents. Combining the practical and the theoretical, they will be steadily ging the seeds of that knowledge the growth of which, as Mr. inherford remarked, is limited only by the years that may be lotted to them. Having assisted them to appreciate the value of eminical education, and form an idea of the scope which the prossion of a mining engineer affords for the exercise of their sciensists. catainments, he proceeded to explain that as manager one is meted to take cognizance of every transaction connected with mine. A certain amount of mercantile information is necessary peted to take cognizance of every transaction connected with the mine. A certain amount of mercantile information is necessary semble one to understand accounts and the method of keeping ism, so that you may know not how to make but how to detect a oked balance-sheet, however attractively garnished. With regard general management, he remarks that there is in some men a stand aptitude for governing others; they observe, as it were insitively, the weak and the strong points in the character of those idet their control, and they are ever ready with remedial measures occasion may arise. And he recommends the manager to deal in the employed in a spirit of fairness and justice; respect their ight to make the most of their only capital, their labour; and in condance with the regulation of wages by the natural law of suply and demand, concede without reluctance a just advance and not without severity a necessary reduction. One great aid in ake their social position a subject of solicitude, cultivate their miles, make their houses as comfortable as possible, and encouge the deserving by advancing them in position. The condition their dwellings has much to do with the permanency of their rice. Give them something about their home in addition to their family ties, to attach them to it, and they will be less likely be unreasonable in their demands, and more careful to avoid upplaint. Nor should their amusements be deemed unworthy matention; supply them occasionally not only with the opporantly but also with the means of enjoying a holiday.

Turning to the mineral resources of Nova Scotia, and the circummess bearing on their development, he remarks that with a gold-ming region, for he does not doubt that nearly the whole of it up to so termed, upwards of 200 miles in width, with nearly a matention of unique and other core or less magnitude, some of them conding seams of unusual thickness, and with a variety of quality spead to domestic and commercial requirements, with in most

of to apply this test of their capabilities, and to estimate their orth a great deal in accordance with their own ideas of the value

llars and cents.

m coal districts of more or less magnitude, some of them conting seams of unusual thickness, and with a variety of quality
styled to domestic and commercial requirements, with in most
we unsurpassable harbours, at which the produce of the mines
by be shipped, and with a variety of minerals that need probably
ta more extensive development to establish their great value;
the all these and other important advantages is it to be supposed
this redundancy of mineral wealth is to remain much longer a
den treasure, a forbidden fruit, or that the mistaken policy, the
suffsh pique of a giant people is to continue for ever? He has
the faith in commercial sagacity than to believe that the many
lumi advantages of Nova Scotia can be much longer ignored, or
the enterprise which opened her mines was but the effervestee of a commercial energy that no longer exists. And glancing me of a commercial energy that no longer exists. And glancing a few of these advantages as regards her mineral resources, he exceed that the geographical position of Nova Scotia cannot but the most cursory observer as a peculiarly fortunate one, the furnishes details which can leave no doubt as the accuracies likewise. be turnished details which can leave no doubt as the accuracies libriews. After pointing out her enormous carboniferous wealth, taly states that of the other minerals which have been proved that in the Province little can yet be said. Manganese is worked asmall extent, copper and lead have been found in many localist the steady operations have yet been carried on. Iron, as know, has been manufactured in Colchester county for several and the strength of the s as, and that it exists in large quantities in various parts of Nova that and Cape Breton there is now little reason to doubt, and of the gold fields, he adds, what can be said? Much, did time

And of the gold fields, he adds, what can be said? Much, did time mit; for notwithstanding the somewhat depressed condition of a mining at present he is not without hope of a considerable real and extension of operations at no distant period. With a stot country not less than 400 square miles in extent, and over age proportion of which the rock formation is auriferous, who a doubt that it needs but the application of scientific and pracal skill for its successful and lucrative development? Mining in Province is in its infancy; the workings in none of the new less are yet of much extent, and the underground operations are, sectore, comparatively simple, and not difficult to conduct. As refore, comparatively simple, and not difficult to conduct. As a personnel of the conduct of the conduction of the conducti duction of all the operations on a large scale, need some more than the mere knowledge of the use of tools, or the value And he appropriately concluded by remarking that it may their residence as students in King's College, Windsor, thany of the future managers of mines in Nova Scotia should their exertions there to obtain the honourable distinction of prize that should be set that the set of th

ler that should be to them hereafter a source of delightful re-tion, and the link of love for and pride in their Alma Mater.

the is most exhilarating, and the contrast which the sentiments as few years since cannot but be regarded as highly encourages a few years since cannot but be regarded as highly encourages especially when taken in connection with the liberal spirit especially when taken in connection with the liberal spirit layed by the University authorities in the establishment of the all of Civil Engineering. This gratifying change was well folal up by the willing adoption of the Rev. Stanley Boyd's resolution at the last annual meeting of the Alumni of King's College, the effect of which will be to increase considerably the number of students by ensuring the attendance of all who are prepared to profit by the educational facilities offered; so that it may fairly be hoped that the University will hereforth prove as useful in promoting the industrial and commercial prosperity of the Province as it has hitherto been in caring for its literary and religious welfare.

THE LATE SIR JOHN RENNIE.

Sir John Rennie, C.E., past President of the Institution of Civil Engineers, was born Aug. 30, 1794. He first assisted his father, the late Mr. John Rennie, in building both Southwark and Waterloo bridges. After the death of his father, in 1821, he succeeded him as engineer to the Admiralty, a post he held for ten years. Among his more important works are London Bridge, for which he received the honour of knighthood. Sheerness, Dockward, the completion of the honour of knighthood, Sheerness Dockyard, the completion of Ramsgate Harbour and Plymouth Breakwaters (commenced by his father), the Earl of Lonsdale's docks at Whitehaven, a portion of those of Cardiff, and the carrying out for a number of years the great system of drainage and land reclamation in the Lincolnshire fens. He was also the author of a noble work on "Harbours," of which Her Majesty was graciously pleased to accept the dedication, and for which he received tokens of honour from their imperial majesties the Emperors of Russia and Austria; also a monograph on "Plymouth Breakwater," and a small "History of Engineering," in the form of a Presidential Address to the Institute of Civil Engineers. In conjunction with his late brother, Mr. G. Rennie, he contributed to introduce the group grouples into the present and or the property of the majority of the property to introduce the screw propeller into the navy, and erected the machinery for the mints of Calcutta, Bombay, and Mexico; they also erected the Royal Clarence Victualling Yard, at Plymouth, and Sir J. Rennie was the first to perceive the uses of the diving-bell in

ongineering works.
Sir J. Rennie was admittedly the highest authority on all sub-Sir J. Kennie was admittedly the highest authority on all subjects connected with hydraulic engineering, harbours, canals, drainage, irrigation, the storage of water, and the management of rivers. His pamphlets on "Drainage of Lombardy" having attracted the notice of the Italian Premier, Signor Litta, the latter induced his Majesty the King of Italy to confer upon him the order of St. Maurice and St. Lazare. Sir John long possessed a wide reputation on the Continent, as may be gathered not only from the above remarks, but from the fact that he constructed the harbour of Ponte Dezala, in the Azores; he was a knight of the Tower and Sword of Portugal, and of the Wasa of Sweden: he was a member of the Academy of and of the Wasa of Sweden; he was a member of the Academy of Science of Stockholm, and also of the Austrian Society of Civil Engineers. Sir John was further well versed in general society and literature, and besides belonging to most of the scientific and learned societies in the metropolis, he was long an active member of the Royal Society and the Meteorological Committee, one of the council and also Chairman of the Juries at the Exhibition 1862. Of least and also Chairman of the Juries at the Exhibition, 1862. Of late years he had almost entirely retired from active life, and died on Sept. 3. His kindness of heart won him many friends, and he has left but few enemies.

PUBLIC COMPANIES LAW-THE COMMANDITE SYSTEM.

Although the commandite system is not recognised in this country

PUBLIC COMPANIES LAW—THE COMMANDITE SYSTEM.

Although the commandite system is not recognised in this country, nearly all its advantages can be secured by a private trader under the "Sleeping Partners Act" (28-29 Vic., c. 86), which enacts that—

1.—The advance of money by way of loan to a person engaged or about to engage in any trade or undertaking upon a contract in writing with such person that the lender shall receive a rate of interest varying with the profits, or shall receive a star of the profits arising from carrying on such trade or undertaking, shall not, of itself, constitute the lender a partner with the person or the persons carrying on such trade or undertaking by a share of the profits of such trade or undertaking shall, of itself, render such servant or agent responsible as such.

2.—No contract for the remuneration of a servant oragent of any person engaged in any trade or undertaking by a share of the profits of such trade or undertaking shall, of itself, render such servant or agent responsible as a partner therein, nor give him the rights of a partner.

3.—No person being the widow or child of the deceased partner of a trader, and receiving by way of annuity or otherwise a portion of the profits of any business, lin consideration of the spea by him of the goodwill of such business, shall, by reason only of such receipt, be deemed to be a partner of or be subject to a partner of or such except, be deemed to be a partner of or be subject.

4.—No person receiving by way of annuity or otherwise a portion of the profits of any business, in consideration of the spea by him of the goodwill of such business, shall pablities in consideration of the spea by him of the goodwill of such business, in consideration by a spea by him of the goodwill of such business, in consideration by a spea by him of the goodwill of such business, in consideration of the spea by him of the goodwill of such business, business, in consideration of the spea by him of the goodwill of such business, business, in considerati

COMMISSIONERS OF PATENTS' REPORT.—The report just issued, shows that in 1873 there were 4294 applications for patents, and of these 2910 were completed. The third years' duty, 50/., was paid on 737 patents, and the seventh years' duty, 100/., was paid on 737 patents, and the seventh years' duty, 100/., was paid on 232 patents. The most interesting part of the report is the renewed reference to the suggestion made 10 years since to remove the commissioners' offices to Fife House and Gardens, Whitehall, as to have transferred them to South Kensington, or any other country district near London, would have been more inconvenient to inventors, patent agents, and all others using the Government office, than Manchester, or any other place where manufactures are carried on. The report states that the readers in the library being of the class of scientific persons, barristers, mechanical engineers, chemists, inventors, skilled workmen in the various factories, solicitors, and patent agents, it is obvious that the readers should be enabled to read the books and examine the machines and models at the same time and in the same place, and, consequently, that the patent office, public library, and museum should be either under the same roof or in very close proximity, and also that the spot to be selected should be of easy access to the class of persons above referred to. This was written in 1864, yet the circumstances are little altered, except that there is a better chance at present for a site near Charing Cross. The museum has always appeared to be a most useless and unnecessarily expensive appendage to the Patent Office, so that its location at South Kensington is no inconvenience to anyone; but the heavy surplus acumulating each year in the hands of commissioners, notwithstanding the most wasteful expenditure in every possible direction, fully justifies inventors in agitating for the immediate reduction of all patent fees to one-fifth their present amount. The patent system is one which requires thorough investigation, COMMISSIONERS OF PATENTS' REPORT.—The report just issued

MANUAL OF METALLURGY.—The more general introduction of science teaching in schools has necessitated the preparation of an science teaching in schools has necessitated the preparation of an entirely new style of class-book—a treatise giving a correct outline of the subject, in language readily intelligible to boys, and so arranged as to form a framework which can easily be filled up with details. The author of the present volume ("A Manual of Metallurgy." By W. Henry Greenwood, F.C.S., A.R.S.M. Vol. I. London and Glasgow: William Collins, Son, and Company) has endeavoured to present the student with a consensed and succinct account of the theory and practice involved in the varied operations comprised in the metallurgy of those metals which are of general application in the arts and manufactures, and to this end has utilised Dr. Percy, as well as notes taken at his lectures, whilst, amongst other works, he has perused with advantage the "Handbuch der Metallurgischen," and other more generally known books. Wherever the information may have come from, it is well calculated to meet the requirements of the student. The present volume, containing the first half of the treatise, embraces the introductory portion, in which the various properties of metal, metallurgical terms, fuel, &c. refers to iron and steel, in, antimony, arsenie, bismuth, and platinum. The metallurgy of iron and steel is very fu"y treated of, and i"ustrations are given in elucidation of the descriptions

of the Rachette furnace, Siemens' puddling furnace and gas producer, Danks' revolving puddling furnace, the Bessemer and Heaton's converters; and in connecvolving puddling furnace, the Bessemer and Heaton's converters; and in connec-tion with the manufacture of pig-iron, the hot-blast stoves of Cowper, Whitwell, and others are described, showing that the information has been brought down to the latest date. As a classs-book Mr. Greenwood's work is certainly the cheapest and most complete yet published, and will prove equally acceptable to both the student preparing for the technical examination of the Science and Art Department and to young men engaged in ironworks. The second volume is to complete the work, so that a really good metallurgical treatise will be obtainable for 5s., which is sufficiently low to ensure a very large circulation.

LLWYN TEIFY LEAD MINING COMPANY.—The prospectus of this company has been issued, and appears in our columns this day, with a capital of 15,000%. In shares of 1% each, 8000 of which are taken up by the vendors in lieu of cash for the purchase of the property, and 7000 are to be issued to the public to provide capital for the further development of the mines, erecting machinery, &c. The mines are situate in the richest mining district of Cardiganshire, and being drained by neighbouring mines can be worked without the aid of pumping machinery at all seasons of the year. The mines having been worked by a few private parties for the last three years, and discoveries of ore having been made sufficient to justify the erection of machinery, and extending the operations, there are not the usual risks and uncertainty attending mining operations in untried ground; on the contrary, in a practical point of view there is every prospect of immediate and regular returns of ore being made. The capital of the company may appear small, but it is considered ample; and many of the companies which have gone on the careful and quiet principle have made profits far exceeding those of greater pretensions. The undertaking deserves attention, and it is a really substantial proof of the faith of the vendors in the results of the pretensions. The undertaking deserves attention, and it is a really substantial proof of the faith of the vendors in the results of the extended working that they take the whole of their purchase-money in paid-up shares.

Registration of New Companies.

The following joint-stock companies have been duly registered:-ANGLO-ITALIAN MACCARONI COMPANY (Limited). — Capital 0,000l., in 2l. shares. To take over the business of Messrs. Ray and Co., of St.

150,000l., in 2l. shares. To take over the business of Messrs. Ray and Co., of St. Paneras.

LONSDALE LEAD MINING COMPANY (Limited).—Capital 10,000l., in 8l. shares. To acquire mining property in the County of Westmoreland. The subscribers (who take one share each) are—W. Paton, Rock. Ferry; Walter Eddy, Llangollen; J. Nancarrow, 3l, James street, Liverpool; J. Hallows, Liverpool; R. Hardman, Liverpool; and C. Saxelby, Shrewsbury.

BRITISH MINING AND MILLING COMPANY (Limited).—Capital 100,000l., in 8l., shares. To carry on mining operations in Nevada. The subscribers (who take one share each) are—W. C. Sargeaunt, Surbiton; W. R. M. Gassett, 7l, Cannon street; W. Tak, Warwick-street, Pimlico; E. Homan, Surbiton Hill; T. J. Bewick, 4, Broad Sanctuary; J. B. R. Johnson, Elan Villa, Teddington; and J. G. Fankshaw, Halkin-street, Belgrave-square.

MANTER MINING COMPANY (Limited).—Capital 50,000l., in 5l. shares. To carry on mining operations in California. The subscribers (who take one share each) are—H. R. Hyndman, 34, 8t. George's-road, Regent's Park; G. A. Henty, St. Ann's Villa, Notting Hill; J. C. Hutchinson, Wellington street; S. G. Martin, St. Michael's Buildings; C. F. Hunter, 6l, Portman-street, W.; A. J. Bedford, 12, Russell-terrace, Brixton; and H. H. Hyndman, Devonshire-street, W.

WEST SOMERSET CHEMICAL AND MINING COMPANY (Limited).—Capital 6000l., in 10l., shares. For the purchase of the chemical works known as the Wood Works, Kingsbrompton, Somerset. The subscribers are—M. Bayliss, Ashfield House, Wolverhampton, 115; S. Marh, Wolverhampton, 10c; W. Bayliss, Torquay, 6; and E. Jones, Amhurst road, Hackney, 115.

Financial Longonou, in 1l. shares. The subscribers this company (who take one capital 100,000), in 1l. shares. The subscribers are model.

FINANCIAL AND INVESTORS' PROTECTION ASSOCIATION (Limited).

FINANCIAL AND INVESTORS' PROTECTION ASSOCIATION (Limited).

—Capital 1,000,000., in II. shares. The subscribers to this company (who take one share each) are J. E. Symons, Markham-street, Chelsea; J. Paulett, Earl-street, Finsbury; W. H. Treadgold, Westmoreland-road, Walworth; H. Ficknell, Peckham; F. B. Maemahon, Penn-road Villa, Holloway; W. N. Thompson, Nevilleroad, N.W.; G. A. Brown, 19, Budge-row, E.C.

WHITWORTH AND COMPANY (Limited).—Capital 150,000l. in 10l. shares. To acquire cotton mills, &c., near Halifax, Yorkshire. The subscribers (who take one share each) are—J. W. Whitworth, Halifax; J. Wells, Luddenden; W. Haddon, Halifax; J. Lightower, Halifax; J. S. Lees, Halifax; R. Haddon, Halifax; F. Walker, Halifax.

OSWESTRY COAL AND BRICK COMPANY (Limited).—Capital 30,000l., in 10l. shares. For the acquisition of a colliery and brickworks at Oswestry. The subscribers (who are all of Manchester, and take one share each) are—Thomas S. Jenkins, il, Yorke-street; H. Atkinson, Lecke; R. B. Brielly, Cannon-street; J. Allan, Market-street; A. Rowbotham, Cannon-street; J. Little-wood, York-street.

SOUTH-EASTERN BONDED WAREHOUSES AND WHARF COMPANY SOUTH-EASTERN DONDED WAREHOUSES AND WHARF COMPANY (Limited).—Capital 50,000f., in 10l. shares. To acquire bonded warehouses in the parish of St. Savour, Southwark. The subscribers (who take one share each) are—Thomas Linsdell, I, Gresham Buildings; G. Gowland, Clapham; Clarence Harcourt, 8, Moorgate-street; R. H. Moore, Regent's Park-road; W. Brooks, 11, Old Jewry; Robt, J. Macarthur, Moorgate-street; J. Lifford, Gresham Buildings, CATT BROTHERS (Limited).—Capital 30,000L, in 5l. shares. To acquire the goodwill of Messrs. Catt Brothers, of Ipswich, Woodbridge, and Colchester, coach builders.

lester, coach builders.

TUNBRIDGE IRON AND BOILER WORKS COMPANY (Limited),—
apital 50,0004, in 104, shares. To purchase the Tunbridge Ironworks, at Hudderseld. The subscribers are—H. Bray, 7, Lincoln-street, Nottingham, 50; J. S.
ilipin, Baker-street, Nottingham, 50; G. R. Cresswell, Nottingham, 12; F. Allen,
eeds, 60; R. Fletcher, Bradford, 50; W. J. Booer, Lloyd-street, Leeds, 1; J. C.
faleshir, Leeds, 1.

Maleshir, Leeds, I.

GENERAL SHARE TRUST COMPANY (Limited).—Capital 250,000.

in 24,800 "A" shares of 10'. and 2000 "B" shares of 11'. For the investment of funds in shares and debentures, and the establishment of undertakings both at home and abroad. The subscribers (who take one share each) are—T. Jervis, 3, Knight-street, Cheapside; W. Goodall, Eagle-terrace, Starch Green; C. G. Phillips, Hugh-street; A. R. Thomson, 22, Westbournet-terrace; C. C. Barlow, 97, Piccadilly; T. D. Whitehall, 18, Queen Victoria-street; and C. Castello, 40, Howlesdown-lane.

Meetings of Lublic Companies.

PARYS MOUNTAIN MINES COMPANY.

The eighth general meeting of shareholders was held at the offices, St. Helen's-place, Bishopsgate-street, yesterday (Friday),
Mr. J. Y. Watson in the chair.

Mr. F. R. Wilson (the secretary) read the notice convening the

Mr. F. R. WILSON (the secretary) read the notice convening the meeting.

The report of the directors (referred to last week) stated that of the 5000 preference shares authorised to be issued on March 17 not one was applied for or allotted; and as it is absolutely necessary that the company should have some cash in hand as working capital, they advise the shareholders to pass a resolution suspending the issue of the preference shares until sanctioned by a further special resolution of the company, and authorising the allotment of the unissue shares created by a resolution passed on Jan. 31, and confirmed on Feb. 17, 1873. When the preference shares were created in March, and which it is now considered advisable not to issue, a resolution was passed that the unallotted portion of the 12,000 additional shares created in January, 1873, should not be issue of "unless and until the same be directed by a further special resolution of the company." It is therefore, proposed to pass such a resolution at this meeting.

The reports of the agents show that only a better price for copper is required to make the mines pay well from the ores raised from them. The directors are further in treaty with some capitalists interested in the new process for returning poor copper ores, to let them the mountain of halvans, or poor ores, on tribute; and if the arrangement is carried out it will give a good monthly profit to the company without any trouble or expense whatever. Of these halvans—chiefly accumulated at the time when the mines was yielding enormous profits from the richest portions of the ores-there is almost an unlimited supply, but at present they are not yielding anything to the company beyond adding the precipitate pits by the water which flows from them after heavy rains.

The CHAIRMAN said that at the meeting in February the ores in reserve were estimated at 6000%; there had aince been sold 3000%, worth,

serve were estimated at 6000%; there had since been sold 3000% worth; and the reserves had been not reduced; 140 tons of copper had been sold since the accounts were made up, and 300 tons of native been sold since the accounts were made up, and 300 tons of native ochre had been sold that morning, at 10s, per ton. With regard to the new process, a number of gentlemen interested therein had made a proposition to the company to take the poor ores at a tribute of 17s. in 11., but the directors thought that was not quite [cnough, and asked 15s. in 11. The matter was still under treaty, and if carried out no doubt it would prove of considerable advantage to the company. At the same time, the directors must have money to go on with, as they were accustomed to pay money for everything, whilst the returns of the company were sometimes not realised in cash for three months, and although there were assets over liabilities to the extent of 3000. It was not in cash. The directors proposed to rescind the resolution, passed some time since, issuing the preference shares, and to substitute the resolutions contained in the notice calling the meeting, and he believed there would be no difficulty in getting rid of the shares mentioned therein. He moved that the report and accounts be received and adopted.—M. Hearh seconded the resolution, which was put to the meeting and carried without any discussion.

shares mentioned therein. He moved that the report and accounts be received and adopted.—M. Heath seconded the resolution, which was put to the meeting and earried without any discussion.

The Chairman then moved the following resolution:—"That the directors be authorised and empowered (to received applications for and to allot all or any of the 7077 (34.) shares, which, in accordance with the special resolution passed at the extraordinary general meeting held on March 2, 1874, still remain unissued."

The Rev. A. Coopers seconded the resolution.

The Chairman, in answer to Mr. Heath, said the directors had never had any application for any of the preference shares.

Mr. Braef, a director, said that all the directors were ready to take their proper

COPPER NASCENT PROCESS. THE

The PROPRIETORS of this PATENT METHOD of TREATING LOW-CLASS SILVER and COPPER ORES are PREPARED to GRANT LICENSES for its USE at LOW ROYALTIES.

There is hardly a Mixed Metal mine in the world but may be made to pay dividends under this system.

All communications respecting the above should be addressed to

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ELEMENTS OF METALLURGY; A PRACTICAL TREATISE ON THE ART OF EXTRACTING METALS FROM THEIR ORES.

By J. ARTHUR PHILLIPS, M. Inst. C.E., F.G.S., F.C.S., &c.,

Ancien Eléve de l'Ecole des Mines, Paris; Author of "Mining and Metallurgy of Gold and Silver," &c.

"The statistics and analyses here given represent both labour and time which it is difficult to estimate. * * The engerly sought for by Students in Science and Art, as well as by practical Workers in Metals."—Colliery Guardian. The work will London: CHARLES GRIFFIN AND COMPANY, 10, Stationers' Hall-court.

FIRST ISSUE OF 2000 SHARES, OF WHICH 235 HAVE BEEN APPLIED FOR AND ALLOTTED TO THE VENDORS. THE GREAT RAKE LEAD MINING COMPANY

(LIMITED).

Registered under the Companies Act, 1862, whereby the liability of the shareholders is limited to the amount of their shares. Capital £25,000, in 25,000 Shares of £1 each.

PAYABLE—5s. per share on application; 5s. on allotment; 5s. in two months; and 5s. in four months after allotment.

Prospectuses and application forms for shares to be had at the office of the com-ny, No. 2, Bank Chambers, Teneut-street, Derby. See manager's report.

THE

OLD TALARGOCH LEAD MINING COMPANY (LIMITED)

FLINTSHIRE.

Capital £100,000, in 10,000 Shares of £10 each. Of which there are only about 4000 Shares available, as 4000 are to be allotted pursuant to the purchase agreement, and about 2000 having been already applied for by the directors, their friends, and the old shareholders.

PAYABLE—£1 on application, £1 on allotment, £3 in three months from date of allotment, two further calls of £1 each at intervals of not less than two months. It is estimated that will put the mine in perfect working order, and leave about £18,000 available capital.

DIRECTORS. HENRY CHURTON, Esq., West Mount, Chester, Coroner for South Chestire, and Director of the Foxdale Mining Company, Isle of Man. P. ELLIS EYTON, Esq., M.P. for Flintshire Boroughs. J. R. JONES, Esq., Pystill, near Holywell, Director of the late

Company.

Sir JOHN ILES MANTELL, Knight, Manchester, Stipendiary Justice for the Division of Manchester, and Director of the Scottish Amicable Life Assurance Society, Glasgow and London.

CLEMENT D. WILLIAMSON, Esq., Plas-y-Morfa, near Holywell, Director of the late Company.

Capt. W. WRIGHT, Bodlondeb, Rhyl.

BROWN, JANSON, and CO., Abehurch-lane, London.
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UNION BANK OF MANCHESTER, York-street, Manchester, and Branches.
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WILLIAM SMITH, Esq., Meliden, near Rhyl.

JOHN S. BLEASE, Esq., Public Accountant, Liverpool.

BROKERS.

Mr. HY. AUSTIN, 33, Manchester Chambers, Market street,
Manchester; and 37A, King street, Oldham.

Mr. ALEXANDER MORISON, 2, India Buildings, Liverpool.

REGISTERED OFFICES,—AT THE MINE, TALARGOCH, NEAR RHYL.

Mr. ALEXANDER MORISON, 2, India Buildings, Livespool.

REGISTERED OFFICES,—AT THE MINE, TALARGOCH, NEAR RHYL.

This company is formed for the purpose of purchasing and acquiring the property, mining interests, machinery, plant, and effects of the Talargoch Mining Company (Limited), and developing the great in neral wealth of the same, by deepening and extending the levels, supplying the nowest self-acting machinery for dressing the ores, altering the boilers by introducing all recent improvements, and so effect a reduction of expenses, which will materially add to the dividends, and for such other objects and purposes as appear in the Memorandum of Association, a copy of which is appended hereto.

The property is one of the oldest in the kingdom, and by many good authorities is said to be, without exception, the best. It has paid handsome protits during a working of several hundred years, out of which almost the whole of the enormous field of machinery, plant, shafts, levels, &c., have been paid for.

Talargoch is situated about one and a-half mile from Prestatyn Station, and about three miles from Rhyl, on the Chester and Holyhead Railway, from which there is a line through the sett for the convenience of the mine.

The machinery comprises, amongst other things, 15 steam-engines, of the following sizes—two 24 in., one 100 in., one 80 in., pair of 18 in., one 36 in., two 12 in., one 18 in., and five donkey-engines, the total nominal horse-power of which is estimated at upwards of 1000, with pumps and lifts; one water-wheel, 20 ft. diameter; one ditto, 40 ft. diameter; and 19 steam-boilers, from 25 to 40 ft. long. There are also 15 shafts (the cost of which it is estimated has exceeded £40,000), with commodious buildings and workshops of various kinds. The two largest engines, the 100 in. cylinder, and the 80 in., with their pumps, gearing, buildings, &c., could not be put up for less than £30,000; the machinery at Clive shaft would not cost less than £0,000. The machinery at Walker's, Mostyn, Dyserth, and New E

It is calculated that the contemplated improvement in the content and a capital by machinery will of themselves yield a handsome dividend on the total capital by saving what is at present wasted. Contracts for the above-named improvements are now being made, and will be proceeded with at once.

It has been stated upon good authority that Talargoch is the best lead mine in the kingdom, and as a strong proof of this, let it be compared with that prolific mine the Van. Talargoch has been worked several hundred years, and the average sinking has not exceeded 4 ft. a year. The Van has been worked five years, and the average sinking is 80 ft. per annum. Talargoch has sold 632 tons of lead, the produce of month's working, the Van has not exceed 500 tons, and there is no reason why Talargoch should not do the same again. Talargoch has probably produced not less than 25 tons of ore for every ton sold from the Van; and the courses of ore are apparently as good as ever at the present bottom of Talargoch. The mine is working for the new company as and from the first day of June last, and yielding returns which can be vastly increased, and from the moment of its being taken over by the new company will, it is confidently expected, be earning substantial and steadily-increasing profits as the mine is opened out.

The following contracts have been entered into, and may be seen at the offices of the company's solicitors. —(1) Contract dated the 31st day of July, 1874, between Talargoch Mining Company (Limited) of the first part, J. R. Jones and J. S. Blease, the liquidators of the said company, of the second part, and Henry Austin as promoter on behalf of the new company of the other part.

The shareholders in the old company retain a large interest in the new company, and will be represented at the board for three years by two directors no:ninated by the liquidators.

As the libuidators.

As the list will only remain open for a limited time, and there are only about 4000 shares to issue, parties wishing to avail themselves of the opportunity of becoming shareholders should do so at once by forwarding the form accompanying the prospectus properly filled up, with a remittance therewith of £L per share, to the brokers, secretary, or any of the bankers of the company. In case no allotment is made the deposit will be at once returned, and if a smaller number of shares is allotted than applied for the balance of the deposit will be applied on account of the sum due on allotment, and the sumplus, if any, returned to the applicant.

LLWYN TEIFY LEAD MINING COMPANY

(LIMITED).
Incorporated under the Companies Acts, 1862 and 1867. Capital £15,000, in 15,000 shares of £1 each. Fully paid-up, without further call or liability. Share-warrants to bearer issued for shares on request of any shareholder on

payment of stamp duty only. DIRECTORS. JOHN WILLIAM WILLIAMSON, Warwick-road, Paddington,

—CHAIRMAN.
CHARLES MORRIS, Bryanston-street, Portman-square.
THOMAS HAZLEDINE, The Parks, Evesham.
HUBERT BARNES RYE, Canonbury Park South.
GEORGE TOMKINS, F.R.Hist.S., 7, Finsbury-square.
Manager—T. P. THOMAS, on the mine.

NATIONAL PROVINCIAL BANK OF ENGLAND, Aberystwith. SECRETARY—E. SILLIFANT.

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PROSPECTUS.

at the offices of the company.

PROSPECTUS.

The objects of this company are to purchase and work an extensive mineral property known as the Liwyn Teify Lead Mine, situate in the county of Cardigan, about 14 miles from Aberystwith.

This mine, which is in the richest mining district of the county, is very large, being about one mile long on the course of the lodes, and one mile wide, and its geological formation is all that can be desired.

The sett is held as to the principal part under lease for 21 years, from March 25th, 1870, and the remainder under a continuous tack note, at a royalty of one-fourteenth. The deep level in this mine is 50 fms. from surface, and as the adjoining mines to the west drain this property for fully 10 fms. below this level, no pumping machinery will be necessary for many years, whilst ample water-power exists for working is pet of a character to require but little timber in the shaffs and levels.

The sett contains several large and powerful lodes, one of which, known as the Bwleh Gwyn South Lode, has been worked upon and proved down to 50 fms., at which depth fine courses of rich lead ore have been discovered, and are ready to be taken away at a very small cost, and from which a parcel of 10 tons has been dressed and sold.

This lode has produded many thousand tons of lead ore in the adjoining mines, where it is found to be richer in the bottom or 86 fm. level than above, thereby showing that it improves in depth, and promising well for the future of this company, more particularly as this lode at about 50 fms. further east forms a junction with four other powerful lodes, at which point great deposits of lead ore may confidently be expected.

The other lode, which is known as Pryce's lode, has been proved for a short distance by an adit level and by a sink below the level, in both of which good courses of lead ore are found, and from which a splendid pile is now to be seen at the surface. This lode is of the most promising character, and is well situated for laying open large bodi

REPORTS.

The machinery comprises, amongst other things, 15 steam-engines, of the following sizes—two 24 in., one 100 in., one 80 in., pair of 18 in., one 80 in., the things, 15 steam-engines, one 18 in., and five donkey-engines, the total nominal horse-power of which is estimated at upwards of 1000, with pumps and lifts; one water-wheel, 29 ft. diameter; one ditto, 40 ft. diameter; and 19 steam-boilers, from 25 to 49 ft. long. There are also 15 shafts (the cost of which it is setimated has exceeded £40,000), with commodious buildings and workshops of various kinds. The two largest engines, the 100 in. cylinder, and the 80 in., with their pumps, gearing, buildings, &c., could not be put up for less than £30,000; the machinery at Clive shaft would not cost less than £30,000. The machinery at Walker's, Mostyn, Dyserth, and Now Eastern Shafts will have cost £6000 more.

The output of the mine may be stated at from 100 to 150 tons of lead and from 150 to 200 tons of blende per month at present, but when it is drained lower, and a more extended section of it opened through which the finer course of ore (which has yielded so largely above the present bettom for a length of 80 yards) runs. the present output will probably be increased to 500 tons of lead and 250 tons of blende were introduced was into the present output will probably be increased to 500 tons of lead and 250 tons of blende will further improve; judging from its general character and composition, and prounds and the same present output will probably be increased to 500 tons of lead and 250 tons of blende will further improve; producing about 1 ton of rich lead ore per fathom, and no doubt as depth is obnaty and the present output will probably be increased to 500 tons of lead and 250 tons of lea

by an adit level, which has been cleared by the present company for a very considerable distance. These workings were formerly carried on on the south or soft part of the lode, which only was easy for progress, and which, from the appearance of the burrows at surface, must have been very rich; in consequence, the hard or north part of the lode is still standing to surface, which in my opinion is the most productive part. I should, therefore, advise you to strip the lode down to its full width, and no doubt valuable discoveries of ore will be made. The present company have sunk a winze from the bottom of this level about 20 fathoms also on the south part of the lode, which has produced very good lead ore; they have also driven a level from the Bwich Gwyn Mine at a depth from surface of 50 fathom, which level has been extended to and communicated with the winze, thereby draining and ventilating this part of the mine. This level is also driven on the south or soft part of the lode, and has passed through some good ore ground, to prove which three stopes in differents parts of the lead ore per fathom, and there is a good run of ore ground gone down in the bottom of this level of about 75 fms., there is every probability of large bodies of ore being found in the same. The western boundary of your mine joins the eastern boundary of Bwkch Gwyn Mine, and a communication is formed from one mine to the other, thereby causing good ventilation. This part of the mine is also drained by the Great Ystymtien deep adit, which is about 30 fathoms below the present level, consequently you have the advantage of extending deeper levels when necessary. Looking, therefore, at the facts that there are several other strong lodes running through the whole length of the sett, that your mine can be worked for many years to come without the aid of pumping machinery, and from my experience of the district, having been caged as agent of several of the best mines here for the last 10 years, I fully believe that a small capital is only require

Livyn Teify Mine.—The Llwyn Teify is the champion lode of Cardiganshir varying in size from 30 ft. to 60 ft. wide, and has been worked for many miles i length, and produced immediately to the west of you nearly one million sterlin worth of lead ore; and having to the east of you the West Esgair light, the Grew West Van, and at its eastern extremity the Van Mine. Nowhere where the lod

has been seen or worked are there finer indications for making enormously the bunches of ore than in this grant, as there are no less than four veins of the great bunches of ore than in this grant, as there are no less than four veins of the great promies which unite and form a junction with the Livyn Teify lode at the tag the mountain called Bwlch Gwyn, and these continue together to the extremity your sett, the River Rheicol, eastward nearly three-fourths, of a mile. It is with these junctions that success in opening mines in this district as ways nothained, and never in one instance, to my knowledge, failed in doing so, if were to give you a more lengthened report, I could add no more than what Is here expressed as to my opinion of your opening out one of the richest and grave well situated as to water for working any machinery required for all grave are well situated as to water for working any machinery required for all grave and that a moderate amount of capital judiciously laid out in developing the perty will undoubtedly end in the success I have predicted for it.

Goginan, Aberystwith*, 13th May, 1874*,

ABSAIOM FRANCE

Liven Trife Mine—I have been through the old workings on the Pales.

perty will undoubledly end in the success I have predicted for it.

Gogman, Aberystwith, 18th May, 1874,

ABSALOM FRANCE

Llwyn Teify Mine.—I have been through the old workings on the Bwied for ode in this mine. I find the soft part of the lode only has been taken and from the trials I have made in the various places on the bwied in the workings I find is orey for the whole depth. The 50 fm level has been each workings I find is orey for the whole depth. The 50 fm level has been each should read or a substantial the back of this level three stopes have been commenced, which are looking we producing from 1 to 1/2 to not of rich lead ore per fathom. I, therefore, see none why the whole of the ground above this should not be equally producive us face. The adit level driven upon the Nanty-moch lode, west of the Bwied in the been extended into the hill about 40 fathoms, producing blende and the Bwied in the been extended into the hill about 40 fathoms, producing blende and the Bwied in the bwied of the bwied in the bwied with the work of the lode. The south lode, was the been at the bwied was a face for a great width—50 to 60 feet—and there is no knowing what may being a great width—50 to 60 feet—and there is no knowing what may being by cross-cutting through the whole of the lode. The south lode, which is and 50 fathoms from the Nanty-moch lode, which is now lose as a survice; this ore speaks for itself. The last 5 fms. have produced good been and spots of lead ore; and I have no doubt in a few fathoms moved about 15th 5 fms. have produced good been and spots of lead ore; and I have no doubt in a few fa To the Directors of the Llwyn Teify Lead Mining Company (Limited),

GENTLEMEN,—I hereby request you to allot me shares of \$\frac{2}{2}\$ leads as above company, and I agree to accept the same, according to the terms of the prospectus.

Name (in full) ... Address.... Signature....

TECHNICAL EDUCATION-No. V.

THE NOVA SCOTIAN SCHOOL OF CIVIL ENGINEERING

The efforts made during the past few years to arouse the \mathtt{Nom} cotians from that distressing apathy which had proved so obstruc tive both to their educational and industrial progress have not been fruitless, and it may now reasonably be hoped that the time is not far distant when the mining and civil engineering professions will be as usefully employed in Nova Scotia as they already are in visit oria and New South Wales. That Nova Scotia is becoming recognised as a promising and legitimate field for the employment of British capital cannot be doubted, and nothing can be bettered to be them that it is practicable to place the management of the concens in which they are interested in the hands of competent and reliable in which they are interested in the hands of competent and reliable in which they are interested in the hands of competent and reliable led to the formation of the School of Civil Engineering in concentration with the University of King's College, Windsor, Nova Scotia, and the adjoining provinces will gladly avail themselves of it for securing to their sons that sound professional education thus broughts the largest possible number, engineering students are permitted the largest possible number, engineering students are permitted matriculate without undergoing an examination in the classical supplementations of School of Civil Engineering in the elastical supplementation of the School of Civil Engineering in concentration of the security of far distant when the mining and civil engineering professions will be as usefully employed in Nova Scotia as they already are in Vie

the previous two years. The elementary course of mathematic comprises the first six books of Euclid, arithmetic, algebra, inclairing the usual rules to the end of quadratics, proportion, binomia the theorem for positive integral exponents, geometrical and arithmetical progression, and the nature and use of logarithms, plane triponometry to enable the student to solve all cases of triangles; and the advanced course comprises the theory of equations, plane and spherical and arithmetical progression, analytical geometry as far as equations of the second degree, conic sections, and the differential and integral as a trigonometry, analytical geometry as far as equations of the second degree, conic sections, and the differential and integral as cuit. The first of the two examinations which have to be passed to qualify for the diploma includes both courses of mathematics, experimental physics, mensuration, levelling, mapping, and a modern continental language; whilst the second examination includes a gineering, mensuration, levelling and mapping, mathematical physical applied natural philosophy, chemistry, geology, and mineralog. From this it would appear that the university authorities has certainly determined to make the diploma worth working for, and both they and the students may be congratulated upon that decisin having been come to.

The recent encemia was, perhaps, the most animated and selected the commence, promises to be a very prosperous one for the shortly commence, promises to be a very prosperous one for the stitution. Considering that the School of Civil Engineering had just been finally established, the address delivered at the encemia just preferred to on "The Profession and Duties of a Mining Engineer,

stitution. Considering that the School of Civil Engineering had been finally established, the address delivered at the encomia just referred to on "The Profession and Duties of a Mining Engineer, by a member of the Board of Governors—Mr. John Rutherfort, M.E., a member of the North of England Institute of Mining and Mechanical Engineers—was particularly appropriate. In comection with the University there is the General Williams' prize for Mineralogy applied to Mining, and it naturally touched the dignity of Mr. Rutherford, himself a mining engineer, to find that two only of those who have competed for it have selected an occupation of profession in which their attainments in connection with it will be presented. profession in which their attainments in connection with it will protession in which their attainments in connection with the practically exercised, and in pointing out the desirability of also ing this state of things he very properly expressed the hope that the present competitors have been actuated by a higher motion that of the simple though praiseworthy design to obtain knowledge of these subjects, or by the creditable, though probably the property of the second o transient eclat of success. A love of the sciences connected with the art of mining, and the intention to make the practice of it the business of his life had, he hoped, spurred each of them to exertion, so stimulated the desire to obtain the prize; and this less for its while than for the passner with which which the leaves the obtains the prize; and this less for its while the prize; and the leaves the obtain the prize; and the prize is the leaves the obtain the prize; and the prize is the leavest the prize; and the prize is the prize is the prize; and the prize is the prize is the prize; and the prize is the prize is the prize; and the prize is than for the passport with which, possessing it, he leaves the lege gates, and enters on the practical pursuit of a favorite since the control of the contro That such a result would attend the competition, that from College would proceed the future managers of collieries and in Nova Scotia was, doubtless, the object of the eminent foundation of the price of the Parkers and Mr. the prize, and Mr. Rutherford's address was well calculated to

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in the realisation of that object by endeavouring to induce competitors to enter into the profession of a mining engineer.

Sketching the duties of a mining engineer, and suggesting the course best calculated to give those practical attainments, without which all book knowledge is almost valueless, Mr. Rutherford, after their of the character of the examination papers implying a Sketching the discussion of the separatical attainments, without coarse best calculated to give those practical attainments, without coarse best calculated to give those practical attainments, without which all book knowledge is almost valueless, Mr. Rutherford, after which all book knowledge of geology, mineralogy, metallurgy, chemistry, and, knowledge of geology, mineralogy, metallurgy, chemistry, and, knowledge of geology, mineralogy, metallurgy, chemistry, and, knowledge physical sciences generally, and to the fact that it is too indeed, the physical sciences generally, and to the fact that it is too indeed, the physical sciences generally, and to the fact that it is too indeed, the physical science at the property of the practice, although in trath ordinary intelligence may take up and practice, although in trath ordinary intelligence in the successful pursuit the application not only of trequires for its successful pursuit the application not only of trequires the student to direct his mind to the acquisition of a thoughly practical knowledge of the operation carried on in and longly practical knowledge of the operation carried on in and longly practical knowledge of the operation carried on in and longly practical knowledge of the operation carried on in and longly practical knowledge of the operation carried on in and longly practical knowledge of the operation carried on in and longly practical knowledge of the operation carried on in land longly practical knowledge of the operation carried on in and longly practical knowledge of the operation carried on in and longly practical knowledge of the operation carried on in and longly practical knowledge of the operation carried on the longly practical knowledge of the operation carried on the longly practical knowledge of t colinto his own hands, or that he should undertake duties of minor mortance in order to learn the use of the one, or the mode of some the other, though a brief experience of each will not weaken then his skill or his judgment, but what is desirable is as large an mount as possible of that sort of knowledge which is recognised the knack of doing a thing, and which is only got by personal sperience, or keen observation. And this knowledge of how to do is not all that they will acquire by this attention to details; they ill become acquainted with another important item of mining considers they will learn what it costs to do it, and will find on rill become acquainted with another important item of mining nowledge; they will learn what it costs to do it, and will find on string on their duties as managers that their employers are very to apply this test of their capabilities, and to estimate their with a great deal in accordance with their corp ideas of the dollars and cents. Combining the practical and the theoretical, they will be steadily

Combining the practical and the theoretical, they will be seeded by that knowledge the growth of which, as Mr. Intherford remarked, is limited only by the years that may be lotted to them. Having assisted them to appreciate the value of echnical education, and form an idea of the scope which the prossion of a mining engineer affords for the exercise of their scienificationments, he proceeded to explain that as manager one is created to take conjugance of every transaction connected with peted to take cognizance of every transaction connected with smine. A certain amount of mercantile information is necessary enable one to understand accounts and the method of keeping so that you may know not how to make but how to detect a oked balance-sheet, however attractively garnished. With regard general management, he remarks that there is in some men a turnal aptitude for governing others; they observe, as it were in-titively, the weak and the strong points in the character of those wher their control, and they are ever ready with remedial measures occasion may arise. And he recommends the manager to deal in the employed in a spirit of fairness and justice; respect their ght to make the most of their only capital, their labour; and in cordance with the regulation of wages by the natural law of supyand demand, concede without reluctance a just advance and must without severity a necessary reduction. One great aid in align with workmen will be found in an intimacy with them. Also their social position a subject of solicitude, cultivate their size to take counsel of you, take an interest in them and their milies, make their houses as comfortable as possible, and encounted the size to take counsel of you, take an interest in them and their milies, make their houses as comfortable as possible, and encountered the size of the gethe deserving by advancing them in position. The condition their dwellings has much to do with the permanency of their twice, Give them something about their home in addition to be family ties, to attach them to it, and they will be less likely be unreasonable in their demands, and more careful to avoid upplaint. Nor should their amusements be deemed unworthy that the control of the control arattention; supply them occasionally not only with the oppor-nity but also with the means of enjoying a holiday. Turning to the mineral resources of Nova Scotia, and the circum-

sees bearing on their development, he remarks that with a gold-ing region, for he does not doubt that nearly the whole of it be so termed, upwards of 200 miles in width, with nearly a by be so termed, upwards of 200 miles in width, with nearly a ten coal districts of more or less magnitude, some of them considered to domestic and commercial requirements, with in most sea unsurpassable harbours, at which the produce of the mines by be shipped, and with a variety of minerals that need probably damore extensive development to establish their great value; it all these and other important advantages is it to be supposed at this redundancy of mineral wealth is to remain much longer a defenterasure, a forbidden fruit, or that the mistaken policy, the safeth pique of a giant people is to continue for ever? He has me faith in commercial sagacity than to believe that the many tamal advantages of Nova Scotia can be much longer ignored, or at the enterprise which opened her mines was but the effervesat the enterprise which opened her mines was but the efferves—
the enterprise which opened her mines was but the efferves—
of a commercial energy that no longer exists. And glancing
a law of these advantages as regards her mineral resources, he
serves that the geographical position of Nova Scotia cannot but
the the most cursory observer as a peculiarly fortunate one,
the furnishes details which can leave no doubt as the accuracies
the view. After monting out her enormous carboniferous wealth
haviews. After monting out her enormous carboniferous wealth the furnishes details which can leave no doubt as the accurately his riews. After pointing out her enormous carboniferous wealth, truly states that of the other minerals which have been proved sits in the Province little can yet be said. Manganese is worked a small extent, copper and lead have been found in many localish, but no steady operations have yet been carried on. Iron, as and have been carried on. Iron, as a know, has been manufactured in Colchester county for several and that it exists in large quantities in various parts of Nova was and Cape Breton there is now little reason to doubt.

And of the gold fields, he adds, what can be said? Much, did time

And of the gold fields, he adds, what can be said? Much, did time tmit; for notwithstanding the somewhat depressed condition of sid mining at present he is not without hope of a considerable real and extension of operations at no distant period. With a set of country not less than 400 square miles in extent, and over integer proportion of which the rock formation is auriferous, who hadoubt that it needs but the application of scientific and pracal skill for its successful and lucrative development? Mining in a Province is in its infancy; the workings in none of the new integer, comparatively simple, and not difficult to conduct. As a followed the second of the secon J become enlarged, however, greater skill and care will be ne-sary, and a consequent superior knowledge will, therefore, be re-tied. The proper ventilation of the mine, the careful yet econoan onduction of all the operations on a large scale, need some-ing more than the mere knowledge of the use of tools, or the value labour. And he appropriately concluded by remarking that it is during their residence as students in King's College, Windsor, at many of the future managers of mines in Nova Scotia should the foundation of a successful career; and it is the remembrance their exertions there to obtain the honourable distinction of prize their exertions there to obtain the honourable distinction of prize dier that should be to them hereafter a source of delightful restion, and the link of love for and pride in their Alma Mater. Now, there is an amount of vigour in Mr. Rutherford's address high is most exhilarating, and the contrast which the sentiments mean few years since cannot but be regarded as highly encouraging the properties of the contrast which the liberal spirit played by the University authorities in the establishment of the wed up hyther givening. This gratifying change was well fol-

up by the willing adoption of the Rev. Stanley Boyd's reso-

gineering.

lution at the last annual meeting of the Alumni of King's College, the effect of which will be to increase considerably the number of students by ensuring the attendance of all who are prepared to profit by the educational facilities offered; so that it may fairly be hoped that the University will herceforth prove as useful in promoting the industrial and commercial prosperity of the Province as it has hitherto been in caring for its literary and religious welfare.

THE LATE SIR JOHN RENNIE.

Sir John Rennie, C.E., past President of the Institution of Civil Engineers, was born Aug. 30, 1794. He first assisted his father, the late Mr. John Rennie, in building both Southwark and Waterloo bridges. After the death of his father, in 1821, he succeeded him as engineer to the Admiralty, a post he held for ten years. Ameng his more important works are London Bridge, for which he received the honour of knighthood, Sheerness Dockyard, the completion of Ramegrate Harbour and Plymouth Breakwater (commenced by his the honour of knighthood, Sheerness Dockyard, the completion of Ramsgate Harbour and Plymouth Breakwaters (commenced by his father), the Earl of Lonsdale's docks at Whitehaven, a portion of those of Cardiff, and the carrying out for a number of years the great system of drainage and land reclamation in the Lincolnshire fens. He was also the author of a noble work on "Harbours," of which Her Majesty was graciously pleased to accept the dedication, and for which he received tokens of honour from their imperial majesties the Emperors of Russia and Austria; also a monograph on "Plymouth Breakwater," and a small "History of Engineering," in the form of a Presidential Address to the Institute of Civil Engineers. In conjunction with his late brother, Mr. G. Rennie, he contributed to introduce the screw propeller into the navy, and erected the machinery for the mints of Calcutta, Bombay, and Mexico; they also erected the Royal Clarence Victualling Yard, at Plymouth, and Sir J. Rennie was the first to perceive the uses of the diving-bell in engineering works. engineering works.

Sir J. Rennie was admittedly the highest authority on all subjects connected with hydraulic engineering, harbours, canals, drainage, irrigation, the storage of water, and the management of rivers. His pamphlets on "Drainage of Lombardy" having attracted the notice of the Italian Premier, Signor Litta, the latter induced his Majesty the King of Italy to confer upon him the order of St. Maurice and St. Lazare. Sir John long possessed a wide reputation on the Continent, as may be gathered not only from the above remarks, but from the fact that he constructed the harhour of Ponta Devale. but from the fact that he constructed the harbour of Ponte Dezala in the Azores; he was a knight of the Tower and Sword of Portugal, and of the Wasa of Sweden; he was a member of the Academy of Science of Stockholm, and also of the Austrian Society of Civil Engineers. Sir John was further well versed in general society and literature, and besides belonging to most of the scientific and learned societies in the metropolis, he was long an active member of the Royal Society and the Meteorological Committee, one of the council and also Chairman of the Juries at the Exhibition, 1862. Of late years he had almost entirely retired from active life, and died on His kindness of heart won him many friends, and he has left but few enemies.

PUBLIC COMPANIES LAW-THE COMMANDITE SYSTEM.

PUBLIC COMPANIES LAW—THE COMMANDITE SYSTEM.

Although the commandite system is not recognised in this country, nearly all its advantages can be secured by a private trader under the "Sleeping Partners Act" (28-29 Vic., c. 86), which enacts that—

1.—The advance of money by way of loan to a person engaged or about to engage in any trade or undertaking upon a contract in writing with such person that the lender shall receive a rate of interest varying with the profits, or shall receive a share of the profits arising from carrying on such trade or undertaking, shall not, of itself, constitute the lender a partner with the person or the persons carrying on such trade or undertaking, or render him responsible as such.

2.—No contract for the remuneration of a servant or agent of any person engaged in any trade or undertaking by a share of the profits of such trade or undertaking shall, of itself, render such servant or agent responsible as a partner therein, nor give him the rights of a partner.

3.—No person being the widow or child of the deceased partner of a trader, and receiving by way of annuity a portion of the profits made by such trader in his business, shall, by reason only of such receipt, be deemed to be a partner of or to be subject to the liabilities on sosider:tion of the sale by him of the goodwill of such busines, shall, by reason only of such receipt, be deemed to be a partner of or be subject to the liabilities of the person carrying on such business.

5.—In the event of any such trader as aforesaid being adjudged a bankrupt, or aking the benefit of any Act for the Relief of Insolvent Debtors, or entering into an arrangement to pay his creditors less than 20s. in 1/1, or dying in insolvent circumstances, the lender of any such loan as aforesaid shall not be entitled to recover any portion of his principal or of the profits or interest payable in respect of such loan, nor shall any such vendor of a goodwill as aforesaid be entitled to recover any such profits as aforesaid until the claims of the ot

appointment of a committee of lenders, or its equivalent, to prevent the misapplication or injudicious application of the moneys lent, would be excessively dangerous, as the borrowers and lenders would thus become a common law partnership with unlimited liability; they would cease to be sleeping partners, and would be (both borrowers and lenders) persons associated together for the purpose of trade; and by section 4 of the "Companies Act, 1862," they could not without registration thereunder carry on the business of banking if more than ten in number, or any other business if more than twenty in number. In the present state of commercial morality it would obviously be unwise to entrust the capital of a company to the discretion of an individual, especially under an Act which affords no facility for stopping the business by liquidation, however ruinous it may be to the lenders for it to continue. The Act authorises the making of a loan to a firm, company, or corporation, but does not authorise the association of lenders in order to evade the Companies Acts. It is essential that capitalists should exercise the utmost Acts. It is essential that capitalists should exercise the utmost caution in interfering with the business management if they lend money under the Sleeping Partners Act.

COMMISSIONERS OF PATENTS' REPORT.—The report just issued, shows that in 1873 there were 4294 applications for patents, and of these 2910 were completed. The third years' duty, 50%, was paid on 737 patents, and the seventh years' duty, 100%, was paid on 232 patents. The most interesting part of the report is the renewed reference to the suggestion made 10 years since to remove the commissioners' offices to Fife House and Gardens, Whitehall, as to have transferred them to South Kensington, or any other country district near London, would have been more inconvenient to inventors, patent agents, and all others using the Government office, than Manchester, or any other place where manufactures are carried on. The report states that the readers in the library being of the class of scientific persons, barristers, mechanical engineers, chemists, inventors, skilled workmen in the various factories, solicitors, and patent agents, it is obvious that the readers should be enabled to read the books and examine the machines and models at the same time and in the same place, and, consequently, that the patent office, public library, and museum should be either under the same roof or in very close proximity, and also that the spot to be selected should be of easy access to the class of persons above referred to. This was written in 1844, yet the circumstances are little altered, except that there is a better chance at present for a site near Charing Cross. The museum has always appeared to be a most useless and unnecessarily expensive appendage to the Patent Office, so that its location at South Kensington is no inconvenience to anyone; but the heavy surplus acumulating each year in the hands of commissioners, notwithstanding the most wasteful expenditure in every possible direction, fully justifies inventors in agitating for the immediate reduction of all patent fees to one-fifth their present amount. The patent system is one which requires thorough investigation, both in the interest of inventors and manufacturers. COMMISSIONERS OF PATENTS' REPORT.—The report just issued

MANUAL OF METALLURGY.—The more general introduction of science teaching in schools has necessitated the preparation of an entirely new style of class-book—a treatise giving a correct outline of the subject, in language readily intelligible to boys, and so arranged as to form a framework which can easily be filled up with details. The author of the present volume ("A Manual of Metallurgy." By WHENEY GREENWOOD, F.C.S., A.R.S.M. Vol. I. London and Glasgow: William Collins, Son, and Company) has endeavoured to present the student with a condensed and sucinct account of the theory and practice involved in the varied operations comprised in the metallurgy of those metals which are of general application in the arts and manufactures, and to this end has utilised Dr. Percy's, as well as notes taken at his lectures, whilst, amongst other works, he has perused with advantage the "Handbuch der Metallurgischen," and other more generally known books. Wherever the information may have come from, it is well calculated to meet the requirements of the student. The present volume, containing the first half of the treatise, embraces the introductory portion, in which the various properties of metal, metallurgical terms, fuel, &c. refers to iron and steel, tin, antimony, arsenie, bismuth, and platinum. The metallurgy of iron and steel is very fu''y treated of, and i'lustrations are given in elucidation of the descriptions

of the Rachette furnace, Siemena' puddling furnace and gas produer, Danks' revolving puddling furnace, the Bessemer and Heaton's converters; and in connection with the manufacture of pig-iron, the hot-blast stoves of Cowper, Whitwell, and others are described, showing that the information has been brought down to the latest date. As a class-book Mr. Greenwood's work is certainly the cheapest and most complete yet published, and will prove equally acceptable to both the student preparing for the technical examination of the Science and Art Department and to young men engaged in ironworks. The second volume is to complete the work, so that a really good metallurgical treatise will be obtainable for 5s., which is sufficiently low to ensure a very large circulation.

LLWYN TRIFY LEAD MINING COMPANY.—The prospectus of this company has been issued, and appears in our columns this day, with a capital of 15,000% in shares of 1%, each, 8000 of which are taken up by the vendors in lieu of cash for the purchase of the property, and 7000 are to be issued to the public to provide capital for the further development of the mines, erecting machinery, &c. The mines are situate in the richest mining district of Cardiganshire, and being drained by neighbouring mines can be worked without the aid of pumping machinery at all seasons of the year. The mines having been worked by a few private parties for the last three years, and discoveries of ore having been made sufficient to justify the erection been worked by a few private parties for the last three years, and discoveries of ore having been made sufficient to justify the erection of machinery, and extending the operations, there are not the usual risks and uncertainty attending mining operations in untried ground; on the contrary, in a practical point of view there is every prospect of immediate and regular returns of ore being made. The capital of the company may appear small, but it is considered ample; and many of the companies which have gone on the careful and quiet principle have made profits far exceeding those of greater pretensions. The undertaking deserves attention, and it is a really substantial proof of the faith of the vendors in the results of the extended working that they take the whole of their purchase-money in paid-up shares. in paid-up shares.

Begistration of New Companies.

The following joint-stock companies have been duly registered:-ANGLO-ITALIAN MACCARONI COMPANY (Limited). — Capital 0,000/., in 2/. shares. To take over the business of Messrs. Ray and Co., of St.

LONSDALE LEAD MINING COMPANY (Limited).—Capital 10,000%,

Lonsdale Lead Mining Company (Limited).—Capital 10,000l., in 5l. shares. To acquire mining property in the County of Westmoreland. The subscribers (who take one share each) are—W. Paton, Rock Ferry; Walter Eddy, Llangollen; J. Nancarrow, 31, James-street, Liverpool; J. Hallows, Liverpool; R. Hardman, Liverpool; and C. Saxelby, Shrewsbury.

British Mining and Milling Company (Limited).—Capital 100,000l., in 5l. shares. To carry on mining operations in Nevada. The subscribers (who take one share each) are—W. C. Sargeaunt, Surbiton; W. R. M. Gassett, 77, Cannon street; W. Tak, Warvick-street, Pimlico; E. Homan, Surbiton Hill: 7J. Bewick, 4, Broad Sanctuary; J. B. R. Johnson, Elan Villa, Teddington; and J. G. Fankshaw, Halkin-street, Belgrave-square.

Manter Mining Company (Limited).—Capital 50,000l., in 5l. shares. To carry on mining operations in California. The subscribers (who take one share each) are—H. R. Hyndman, 34, 8t. George's-road, Regent's Park; G. A. Henty, St. Ann's Villa, Notting Hill; J. C. Hutchinson, Wellington street; S. G. Martin, 8t. Michael's Buildings; C. F. Hunter, 6, Portman-street, W.; A. J. Bedford, 12, Russell-terrace, Brixton; and H. H. Hyndman, Devonshire-street, W. WEST SOMERSET CHEMICAL AND MINING COMPANY (Limited).—Capital 6000l., in 10l. shares. For the purchase of the chemical works known as the Wood Works, Kingsbrompton, Somerset. The subscribers are—M. Bayliss, Ashfield House, Wolverhampton, 50; Thomas Lomas, Minehael, Somerset, 115; S. Marsh, Wolverhampton, 10; W. Bayliss, Torquay, 5; and E. Jones, Amhurst road, Hackney, 115.

Hackney, 115.

FINANCIAL AND INVESTORS' PROTECTION ASSOCIATION (Limited),
—Capital 1,000,000', in I'. shares. The subscribers to this company (who take one share each) are J. E. Symons, Markham-street, Chelsea; J. Paulett, Earl-street, Finsbury; W. H. Treadgold, Westmoreland-road, Walworth; H. Ficknell, Peckham; F. B. Macmahon, Penn-road Villa, Holloway; W. N. Thompson, Nevilleroad, N.W.; G. A. Brown, 19, Budge-row, E.C.
WHITWORTH AND COMPANY (Limited),—Capital 150,000', in 10', shares. To acquire cotton mills, &c., near Halifax; Yorkshire. The subscribers (who take one share each) are—J. W. Whitworth, Halifax; J. Wells, Luddenden; W. Haddon, Halifax; J. Lightower, Halifax; J. S. Lees, Halifax; R. Haddon, Halifax; F. Walker, Halifax.

OSWESTRY COAL AND BRICK COMPANY (Limited).—Capital

Halifax; F. Walker, Halifax.

OSWESTRY COAL AND BRICK COMPANY (Limited). — Capital 30,000., in 10. shares. For the acquisition of a colliery and brickworks at Oswestry. The subscribers (who are all of Manchester, and take one share each) are—Thomas S. Jenkins, il, Yorke-street; H. Atkinson, Lecke; R. B. Brielly, Cannon-street; J. Allan, Market-street; A. Rowbotham, Cannon-street; J. Littlewood, York-street.

Janhon-sereet; J. Albah, markersteet; A. Rowberg, Sawan, S

cliester, coach builders.

TUNBRIDGE IRON AND BOILER WORKS COMPANY (Limited).—
Capital 50,000., in 10t, shares. To purchase the Tunbridge Ironworks, at Huddersfield. The subscribers are—H. Bray, 7, Lincoln-street, Nottingham, 50; J. 8, Glipin, Baker-street, Nottingham, 50; G. R. Cresswell, Nottingham, 12; F. Allen, Leeds, 50; R. Fletcher, Bradford, 50; W. J. Booer, Lloyd-street, Leeds, 1; J. C. Maleshir, Leeds, 1.

GENERAL SHARE TRUST COMPANY (Limited).—Capital 250,000t, in 24,800 "A" shares of 10t, and 2000 "B" shares of 1t. For the investment of funds in shares and debentures, and the establishment of undertakings both at home and abroad. The subscribers (who take one share each) are—T. Jervis, 3, Knight-street, Cheapside; W. Goodall, Eagle-terrace, Starch Green; C. G. Phillips, Hugh-street; A. R. Thomson, 22, Westbourne-terrace; C. Barlow, 97, Piccadilly; T. D. Whitehall, 18, Queen Victoria-street; and C. Castello, 40, Howlesdown-lane.

Aleetings of Bublic Companies.

PARYS MOUNTAIN MINES COMPANY.

The eighth general meeting of shareholders was held at the offices, St. Helen's-place, Bishopsgate-street, yesterday (Friday),
Mr. J. Y. Watson in the chair.

Mr. F. R. Wilson (the secretary) read the notice convening the

Mr. F. R. WILSON (the secretary) read the notice convening the meeting.

The report of the directors (referred to last week) stated that of the 5000 preference shares authorised to be issued on March 17 not one was applied for or allotted; and as it is absolutely necessary that the company should have some cash in hand as working capital, they advise the shareholders to pass a resolution suspending the issue of the preference shares until sanctioned by a further special resolution of the company, and authorising the allotment of the unissued shares created by a resolution passed on Jan. 31, and confirmed on Feb. 17, 1873. When the preference shares were created in March, and which it is now considered advisable not to issue, a resolution was passed that the unallotted portion of the 12,000 additional shares created in January, 1873, should not be issued "unless and until the same be directed by a further special resolution of the company." It is therefore, proposed to pass such a resolution at this meeting.

The reports of the agents show that only a better price for copper is required to make the mines pay well from the ores raised from them. The directors are further in treaty with some capitalists interested in the new process for returning poor copper ores, to let them the mountain of halvans, or poor ores, on tribute; and if the arrangement is carried out it will give a good monthly profit to the company without any trouble or expense whatever. Of these halvans—thiely accumulated at the time when the mine was yielding enormous profits from the richest portions of the ores—there is almost an unlimited supply, but at present they are not yielding anything to the company beyond aiding the precipitate pits by the water which flows from them after heavy rains.

The CHAIRMAN said that at the meeting in February the ores in reserve were estimated at 6000,; there had since been sold 3000, worth, and the reserves had heen not reduced; 140 tons of copper had

serve were estimated at 6000%; there had since been sold 3000% worth, and the reserves had been not reduced; 140 tons of copper had been sold since the accounts were made up, and 300 tons of native ochre had been sold that morning, at 10s, per ton. With regard to the new process, a number of gentlemen interested therein had made a proposition to the company to take the poor ores at a tribute of 17s, in 12., but the directors thought that was not quite enough, and asked 15s. in 12. The matter was still under treaty, and if carried out no doubt it would prove of considerable advantage to the company. At the same time, the directors must have money to go on with, as they were accustomed to pay money for everything, whilst the returns of the company were sometimes not realised in cash for three months, and although there were assets over liabilities to the extent of 3000%. It was not in cash. The directors proposed to reseind the resolution, passed some time since, issuing the preference shares, and to substitute the resolutions contained in the notice calling the meeting, and he believed there would be no difficulty in getting rid of the shares mentioned therein. He moved that the report and accounts be received and adopted.—M. Hearth seconded the resolution, which was put to the meeting and carried without any discussion.

The CHAIRMAN then moved the following resolution:—"That the directors be authorised and empowered to received applications for and to allot all or any of the extraordinary general meeting held on March 2, 1874, and confirmed on March 17, 1874, the remain unissued."

The Rev. A. COOPER seconded the resolution.

extraordinary general number of the resolution.

The Rev. A. Cooper seconded the resolution.

The Chairman, in answer to Mr. Heath, said the directors had never had any application for any of the preference shares.

Mr. Beaby, a director, said that all the directors were ready to take their proper

proportion of those shares if the rest of the shareholders would also come forward, but it was no use their taking up their proportion unless the shareholders did the same.—The resolution was then put and carried.

The CHAIRMAN then moved the following resolution:—"That the 5000 A shares of it, each fully paid, bearing a preferential dividend of 15. per ceat. per annum, authorised by the special resolution of this company passed on March 2, 1874, and confirmed March 17, 1874, but which still remain unallotted, be not issued unless and until the same shall be directed by a further special resolution of the company."

Mr. Heath seconded the resolution.

Mr. Heath seconded the resolution by the Rev. Mr. Cooper, said that if they cossessed the authority six weeks ago, the directors could have issued almost every ne of the shares. If the new process answered, the company could raise thousands tons of one, which it would not answer to raise at the present time. He believed to gentlemen to whom he had referred proposed to lay out 5000/. or 10,000/. The Rev. Mr. Cooper asked whether this company had expended any money in ying the new process. —Mr. Brahr said that it was the duty of the directors of the process of the price of the pri

large quantities.

Mr. Wilson said that all attempts to get the royalty had been unsuccessful; but at the same time the company had not been

reased for the money.

After some further unimportant discussion, the resolution was put and carried.

The meeting then broke up.

WHEAL KITTY (ST. AGNES) MINING COMPANY.

At a quarterly general meeting of adventurers, held at the account-house, on the mine, on Wednesday (Mr. Wm. TEAGUE in the chair), Mr. HICKEY (the secretary) read the notice convening the meeting.

The accounts, charging cost to June 13, showed a profit on the quarter of 536l, 12s, 8d., and a balance in favour of the mine of 637l, 13s, 10d. A dividend of 2s. 6d. per share (536l, 17s. 6d.) was

declared.

The following agents' report was considered very satisfactory:—

Sept. 9.—Pryor's Lode: The new shaft is being sunk about 5 fms. under the 142.

We do not expect to see the lode before the 164 is reached. Fair progress is being made with sinking. In the 142, driving west of new shaft, the lode is yielding saving work for tin. In the 142 east we are cross-cutting the lode, the main part of which we hope to reach shortly. In the 142, on the caunter, driving north, the lode is worth for tin 71, per fathom. In the 130, driving west of shaft, the lode is worth for tin 131, per fathom. In the 130, driving cast of shaft, the lode is worth for tin 161, per fathom. In the 160, driving west of shaft, the lode is worth for tin 101, per fathom. In the 168, driving west of shaft, the lode is worth for tin 101, per fathom. In the 168, driving west of shaft, the lode is worth for tin 101, per fathom. In the 168, driving west of shaft, the lode is without alteration since our last, being still of a most promising character. On the whole, our prospects are not quite so good as at the last meeting, but we anticipate an early improvement in the bottom of the mine. The continuous depressed state of the tin market is sadly against us, but we hope for better days even in the tin market, when we shall resume our former position by paying increased dividends.—WM. TEAGUE. S. DAYEY, JOHN WILLIAMS.

BAGWORTH COLLIERY COMPANY.

The third ordinary general meeting of the shareholders was held yesterday (Friday), at the London Tavern,
Mr. WALTER ARMSTRONG in the chair.

The notice calling the meeting was read by Mr. T. L. Fox (the

cretary).
The directors' report, which was taken as read, was as follows: The directors' report, which was taken as read, was as follows:—
In convening the half-yearly ordinary meeting your directors append the ba
lance sheet and statement of accounts for the six months ending June 30, 1874. It
will be seen that after payment of the interim dividend made on May 15, there
still remains from the profit and loss account for the half-year a balance of
1134. 198. 5d. This, considering the state of the trade, and that for nearly two
months the colliery was wholly unproductive owing to the strike, is fairly satisfactory. The directors, after careful consideration, and in order to protect the interests of the company against the now frequent combinations of the men, having
decided that the company should become a member of the Leicestershire and
south Derbyshire Coalowners' Protection Association, arrangements were made,
and the company has now, by virtue of the act of the directors, joined the said
smociation. In order to completely legalise this, it is proposed to confirm it by
special resolution, and for that purpose the meeting will be made special after the
completion of the ordinary business. As showing the advantages which have
already resulted from the company's joining the association, it may be mentioned
that, as compensation for the loss the company sustained during the strike, which
lasted nearly two months, owing to the men resisting any reduction of wages, we
are entitled to, and will be paid by the association, and of 600. Extracts from
the report of Mr. Lewis, the engineer, are appended, which show that the company's property and works are now in a more efficient state than they have everbeen. Your directors recommend that out of the balance of 1507. 19s. a further
dividend at the rate of 5 per cent. be declared for the balance of 1507. 19s. a further
dividend at the rate of 5 per cent. be declared for the balance of 1507. 19s. a further
dividend at the rate of 5 per cent. be declared for the balance of 1507. 19s. a further
dividend at the rate of 5 per cent. be decla

disappointed at the smallness of the dividend compared with what it had been before, but upon an examination of the accounts that was easily accounted for. There had been a great diminution in the coals sold during the past six months, the sales having amounted to 13,804L, as against 20,937L in the previous six months, and that had partly arisen from a diminished quantity, and partly from the largely diminished price. The best coal was diminished in price to the extent of about 55, per ton, and that of 60,000 tons avear would give a diminution partly arisen from a diminished quantity, and partly from the largely diminished price. The best coal was diminished in price to the extent of about 5s, per ton, and that on 60,000 tons a-year would give a diminution of 18,000?. Then there was a strike, by which about two months were lost, although there were heavy expenses going on during that time. Then, again, there had been a reduction in the price of slack, which formerly sold at 8s, and 9s, at on at the pit's mouth, whilst it was difficult now to sell it at 4s, and 4s, 6d, per ton, and of course this had interfered materially with the profits of the colliery. Then, again, the new law with respect to collieries, which came into operation on Ang. 1 last year, had proved more disastrous to colliery owners than was at first anticipated. Before the law came into operation the men gave 24 cwts, to the ton to cover waste, but now they were only obliged to give 20 cwts, to the ton, whilst in selling the company had to give 21 cwts, to the ton a cover waste, but now they were only obliged to give 20 cwts, to the ton, whilst in selling the company had to give 21 cwts, to the ton, so that the company lost I cwt. per ton to begin with, and the waste besides. Since the last meeting Mr. Miller had retired from the board, and the directors had the good fortune to find that Lord William Phipps was willing to become a director, and his lordship was accordingly elected to a seat at the board. The working of the colliery at present was very satisfactory; he had himself visited the colliery a fortnight ago with Lord William Phipps, and everything was going on very nicely, and he could sately say that the company was working at a profit. He moved the adoption of the report and accounts.—Lord W. Phillips seconded the resolution.

Mr. W. H.S.ON said that, like all trading companies, the dividends of this company must go up and down, but he thought that, on the whole, the shareholders had every reason to be satisfied with the dividend which they had received.

Mr. W. GLEADON (di

Mr. PAGAN thought that depreciation ought to be charged upon the property, as was done last year, and he moved that the report be altered by writing off 240% to depreciation and carrying forward 297% is 10d., instead of the 557% is, 10d. mentioned in the report.

The CHAIRMAN said the directors had no objection to the adoption of such a constant of the said of the

course, and after a short discussion the report was adopted with the alteration suggested by Mr. Pagan.

The meeting was then made special, and the following resolution was passed:—
"This company having, by resolution of the board, dated Aug. 17, 1874, become a member of the Leicestershire and South Derbyshire Coalowners' Protection Association, resolved that the act of the directors in making the company a member of the said association be, and hereby is, approved and adopted by this company."

A vote of thanks to the Chairman and directors closed the proceedings.

LADY CONSTANCE LEAD MINING COMPANY.

An ordinary general meeting was held on Tuesday, at Manchester Mr. PICKLES in the chair.

Mr. Pickles in the chair.

The Chairman said they were met in accordance with a minute passed at the ordinary general meeting held on March 31, at which it was resolved—"That a printed balance-sheet and report be sent to each shareholder at least ten days prior to such meeting." Owing to the delay in auditing the accounts of the company, and other circumstances over which the directors had no control, the meeting had been unavoidably postponed. It was, perhaps, owing also to the desponding tone of the report issued by the directors that they had not a larger attendance on the present occasion, and had they postponed the meeting for a few weeks longer, he thought they would have had more shareholders present, as a great change for the better had taken place since that report was issued. He was glad to say that the ground in the new shaft had commenced about a week ago to yield large quantities of white ore, and that only the previous day; two directors had been over the mine, and brought back with them the samples of ore now lying on the table, which they had themselves seen obtained direct from the shaft and washed. This deputation (he said) stated that the ground taken from this shaft would yield, on the average, 20 per cent. of ore, and that the reports Capt. Wasley has sent with respect to the improvement are good and substantial statements. The directors had worked very hard since their appointment, and warsent lading their best to make the mine a good dividend-paying one, and therefore 1 e was heartly glad to have, unexpectedly, such good in the contract of the contr

news for them, and he hoped by next meeting that they (the directors) would have a still more cheering report to give. The secretary then read reports and correa still more cheering report to give. The secretary then read reports and correspondence from Captain Wasley and the Rev. David Jones, confirming what the Chairman had said with regard to the promising appearance of the mine, and stated that it was entirely owing to the kindness of the Rev. Mr. Jones, who had already advanced 1000t, that they were enabled to continue working the mine. Two directors having resigned, it was resolved that Mr. John Andrew, of Oldham, become a director of this company.

become a director of this company. It was also resolved that Mr. Benjamin Grime, of Oldham, be auditor until Christmas, 1875, after which, there being no further business, the meeting dissolved. [For remainder of Meetings see to-day's Supplement.]

Original Correspondence.

THE NASCENT COPPER PROCESS.

SIR,—I have no objection to respond to the appeal, albeit anonymous, contained in the letter of "Mine Adventurer" in the Supplement to last week's Journal. As reference is therein made to former processes of obtaining silver, and looking moreover to Mr. John Longmaid's letter in the Journal of Aug. 8, in which that gentle-man avers his ignorance of any improvement or discovery of any other branch process that was not carried out 20 years ago at St. Helen's, I think it may be of service if I point out the salient fea-tures which render the Nascent Copper Process novel as well as efficient and remunerative.

In the first place, the very title of the process indicates the most distinctive amongst its peculiarities—the employment of nascent copper as a precipitant for silver. All chemists are familiar with the fact that every element is more prone to enter into a new comthe fact that every element is more prone to enter into a new com-bination at the moment of its dissolution from a former one than it is under any other molecular condition. An element newly dissociated is in what is termed the nascent state, and its chemical affinities are then most pronounced and active. Therefore, by using affinities are then most pronounced and active. Therefore, by using copper in a nascent condition instead of ordinary cement or metallic copper, a great increase of efficiency in precipitations from solutions of silver-salts is attained. Nor is this all; not only can the Nascent Copper Process be profitably applied to silver ore of too low a grade to be treated by any other method, but a further advantage is attained—the utilisation of poor copper ores as the source of the nascent copper required. Usually where the main lodes carry copper the cross-courses carry silver, and by simply mixing the halvans of each together the smallest percentage of either metal may be extracted.

Again, the use of hot brine as a lixiviating agent has in all former processes been restricted to the treatment of silver ores, and has never, hitherto, been directly applied to the extraction of copper. never, litherto, been directly applied to the extraction of copper. In the Nascent Copper Process, on the contrary, hot brine plays a very important part as a solvent of copper, as well as of silver, owing to the operation of a chemical principle, which, having as yet remained unobserved, I do not feel called upon to disclose. I may, however, add ithat by the mode in which this principle is brought into play by the Nascent Copper Process the action of the chloridising furnace is rendered more complete than under any other method of treatment. method of treatment.

A third improvement consists in the precipitating as well as in the lixiviating tanks. The only prior example of this is to be found in Claudet's process, but there the jet of steam is applied after the precipitation of the silver, and solely to assist the subsequent copper

precipitation—or the silver, and solely to assist the subsequent copper precipitation—a case, therefore, by no means parallel, and in no wise affecting the originality of the Nascent Copper Process.

The above will constitute a sufficient answer to the remarks of Mr. Longmaid and "A Mine Adventurer," and it will not be necessary for me here to enter upon a minute exposition of the other important features which distinguish the Nascent Copper Process from preceding inventions. These I must be permitted to reserve but I portant features which distinguish the Nascent Copper Process from preceding inventions. These I must be permitted to reserve, but I may state that they involve a number of practical points, the presence or absence of which affects the profits of the process rather than its principle. Hence I have little fear of any attempt at infringement, or of the "unnecessary and undesirable litigation" suggested as possible by "A Mine Adventurer," since in the chemical treatment of poor substances no margin exists to allow for practical blunders; and those who attempt to use the Nascent Copper. trical blunders; and those who attempt to use the Nascent Copper Process without fully mastering its minor as well as its major principles will lose both time and money. On the other hand, those who employ the process under the direction of the patentees will find the royalty (in amount the reverse of excessive) altogether insignificant compared with the profits resulting from the carrying out of the plan.

STEPHEN H. E. ST STEPHEN H. EMMENS,

SOUTH PRINCE PATRICK (NEAR HOLYWELL).

SIR,-A company was formed to work this mine about 12 months Sin,—A company was formed to work this mine about 12 months since, whose success to this time is worthy of particular notice. The proprietary being chiefly in the North of England, nothing beyond the usual reports finds its way to your columns. I, therefore, send you the following few particulars ascertained by personal inspection. The company consists of 8000 shares of 11. each fully paid, and its success during the short period of its existence is shown by the returns of lead ore made, and being made. The sale this week of 40 tons of ore, worth from 131. 10s. to 141. per ton, the produce of one month (the cost of gaining which, everything included, is less one month (the cost of gaining which, everything included, is less than 150%), is to be continued, and is guaranteed by the reserves of lead ore already laid open. Estimated upon this return the minimum profit would be 4800% per annum. The first dividend of 2s. per share will be declared at the meeting to be held a month or five weeks hence. Few mines having done so well as this in so short a time it will be interesting to some of your readers to know that weeks hence. Few mines having done so well as this in so short a time it will be interesting to some of your readers to know that successful lead mining can still be carried on in North Wales.

10, Coleman-street, E.C., Sept. 11.

A. W. THOMAS.

ANGLO-AUSTRIAN BANK.

SIR,—Not being able to ascertain from the bank officials the reason why no dividend has been declared by the directors of this bank in July last, or whether they have succeeded in disposing of the remaining 20,779 shares at par-1212, per share—as set forth in their balance-sheet of Dec. 31, 1873, I crave your assistance in obtaining a reply to these queries, which will much oblige.

AN ANXIOUS ENQUIRER.

[For remainder of Original Correspondence see this day's Supplement.]

MINING NOTABILIA. [EXTRACTS FROM OUR MINING CORRESPONDENCE.]

CHAPEL HOUSE COLLIERY.—The manager writes that he is "glad say we are very busy, and prices are remaining very firm." as the winter nears t is expected that prices will rise, and so the profits will be much increased. As on as the 50 new wagons are delivered the manager thinks he can increase the present output by 1000 fons per month. In order to do this the more speedily he has split the order for the wagons, and will by that means ensure their delivery much earlier than would otherwise by the case. The demand continues far in excess of the output, and last month 1700 tons of coal were purchased in excess of the output to supply the company's customers. This yields an additional profit,

excess of the output, and last month 1700 tons of coal were purchased in excess of the output to supply the company's customers. This yields an additional profit, and the fact that the coal is sold direct to the consumer, and so saving the profits of intermediate merchants, cannot be thought too much of.

TAN-YR-ALLT MINE (Cardiganshiro).—Some weeks past we published a notice of this mine, since which we are informed a valuable improvement has taken place, and a winze of ore is now to be seen in the bottom, which is 10 in. of solid silver-lead, and the remainder of the lode is ore-bearing throughout its entire width, about 4 ft. Should this prove good in length as well, this new mine may prove one of the prizes of mining, of which there have already been several in this well-known lead-bearing county. We hope one of the results may be to direct public attention to Welsh mining, which has lately been sadly neglected. It is satisfactory, as in this case, to find private enterprise and perseverance under very disheartening circumstances richly rewarded.

HINGSTON DOWN.—An improvement of some importance has taken

HINGSTON DOWN.—An improvement of some importance has taken lace in this mine, the lode in the 110 being worth 20%, per fathom, and showing idications of a far greater improvement. The 110 is the furthermost end west-ard. The next sampling is 500 tons of copper ore, and with the firm standard a control of the control of

od sale is anticipated.

BEDFORD UNITED is still looking well, but owing to a slight accident to the machinery the sampling last month is reduced in quantity. All is in good working order again, and with a better price for copper the mine will con-tinue to make profits.

nue to make profits.

SOUTH WARD.—The North Hooe lode, recently intersected by a cost-cut at the 60, is showing every appearance of a good course of lead ore as the outh end is advanced. The shaft will ere long be down to the 90, when it is anti-rated the two lodes will meet, and a permanent profitable mine be established. SOUTH FRANCES.—A correspondent writes that this mine appears be under a cloud for the time, although it is said that every exertion is being

nade to cut the West Basset lode. The monthly costs and merchants bills are rery heavy, and apparently no steps are being taken to reduce them, newithte, ing the low price of tin.

g the low price of tin.

SOUTH WHEAL CROFTY.—We are glad to hear that the lode in eshaft, which at the last meeting was reported worth 20% per fathom, continue improve in depth.

to improve in depth.

CATHEDRAL MINE.—The lode at the shaft is worth 40!, sterling per fathom. The first sale of copper was made last week, and realised an end lent price—54 tons sold for 340!.; this is looked upon at an excellent commenced.

FOREIGN MINES.

DON PEDRO.—Letter from mine captain, dated Aug. 10: Produstor July, 6805 oits. The ore continues to be fair in quality, and has again to taken from the Canoa and Nos. 6 and 3 shoots. Some very fair boxwork has been taken from No. 8 shoot, just below the 25. Sinking has been hindered to ing the past week, in consequence of those sand boils choking the pumps, but we now have the 10 in. 18 th earthe bottom of the shaft, so that should the suburst in such quantities as to choke the 8-in. pumps we can put the 10 in. 18 of in an hour. The water being drawn from the mine still amounts of its feet a minute; this shows that for the last two or three months the water has seen fereased.—Stopes: Stoping throughout the mine has been continued without charge.

EBERHARDT AND AURORA.—Telegram from Captain Drake.—"1010 tons crushed during August, producing 10,872/.; average assay, 863 perus.

Mine looking well."

RICHMOND CONSOLIDATED.—Telegram: "\$34,000; two-and-

AND RAUND CONSULIDATED.—Telegram: "\$34,000; two-and-quarter furnaces; still short handed; mine looking well."

MINERAL HILL.—Extract from a letter received by the official liquidator from Mr. Oakes, the superintendent at the mines, dated Aug. 17.—"B prospecting progresses without any change to notice. The mines continue to in well, and turning out a good quantity of ore. The raisings this week amount 80 tons, of an average grade of \$66 per ton, raised at a cost of \$1060-76, incluting the control of the control of the cost of \$1000-76, incluting the cost of \$1000-76, including the cost of \$1000-76, i

see tons, of an average grade of \$66 per ton, raised at a cost of \$100076, include prospecting, &c."

SAN PEDRO (Chili).—Capt. Kitto, July 15: Since my last we have been engaged at the 110. We have cleared out the level leading to the Man been engaged at the 110. We have cleared out the level leading to the Man Verde, and have discovered a great deal of native copper in the brule stone, which leads me to believe that the Manto Verde is not yet cut. I shall put two me; a drive here as soon as we have finished securing the level, &c. Cuba Mine is been worked by two men driving a cross-cut south of east, through a splendid chase of ground, and is producing good stones of ore.

BIRDSEYE CREEK.—Telegram from superintendent, Mr. 6, § Powers:—"We have cleaned up after a run of 30 days. The gross returns a \$5000. The tunnel expenses are \$1500. The profit is \$2000."

NEW PACIFIC.—J. D. Pringle, Aug. 18: The general appearant of the mine is fully as good as when I last wrote you. I have just cut a body very base ore in the 300 ft. level west. I feel very much encouraged at finding a fany description at this point. This level has been driven west aditance 225 ft. with scarcely a sign of ledge or metal of any kind until the present bey was struck, which I have no doubt will soon change to pay-ore. The points and \$90 ft. west of the shaft are producing a considerable amount of low gas and \$90 ft. west of the shaft are producing a considerable amount of low gas the results of the shaft are producing a considerable amount of low gas tracked. The found no ore as yet in the level east of the cross-cut, but I am this out some good ore below the 400.

COLORAD TERRIBLE LODE,—Agent's advices to hand are day and 22. He encloses railway receipt notes for the 44th and 45th shipman. The product of 10 tons each, and advises the 44th toleave on Any 28 and the sale of the cross-cut, but the superior of 10 tons each, and advises the 44th toleave on Any 28 and the sale of the cross-cut, but the sale of the cross-cut, but the sale of the cro

one. I have found no ore as yet in the level east of the cross-cut, but I am this out some good ore below the 400.

COLORADO TERRIBLE LODE.—Agent's advices to hand are data Ang. 22. He encloses railway receipt notes for the 44th and 45th shipmens Liverpool, of 10 tons each, and advises the 46th to leave on Aug. 23, and the 4th, week after. The mine was looking well, and concentration progresses satisfator, ore raised in June, 328 tons; not profit, \$4487-717. With regard to the interpret to Liverpool, three only have as yet arrived—the 41st, 42nd, and 43rd. Our Liverpool, three only have as yet arrived—the 41st, 42nd, and 43rd. Our Liverpool, three only have as yet arrived—the 41st, 42nd, and 43rd. Our Liverpool agents have this morning remitted 900. on account of the 41st shipment, with the 41st of 10 the 41st shipment the 41st of 10 the 41st shipment the 41st shipment the 41st of 10 the 41st shipment the 41st shipme

CAPE COPPER.—The Ookiep and Spectakel Mines reports at the corporation of the second o

r 600 tons of ore per Tacna.

WEST CANADA.—Aug. 18: Huron Copper Bay: The stope in the bottom of the 35, west of Palmer's shaft, will yield 2½ tons of copper ore set the bottom of the 50, east of Bray's shaft, we have a stope also yielding 3% ore per fathom.

In the bottom of the 50, east of Bray s shart, we have a stope assoy. The of ore per fathom.

MENZENBERG.—R. K. Roskilley, Sept. 9: We are getting off with the sinking of Dickins's engine-shaft, and in the last 3 ft. sunk we have with some very congenial branches of spar intermixed with spots of yellow one, which are very promising indeed; these branches are underlaying towns lode, and their dropping in that direction is a good indication. This sha sunk 43 fms. 2 ft. below surface, and we are pushing on the same with alpos speed. We put on another pump yesterday, so as to lengthen the draws which is in good order; and the shaftmen are again busily engaged in shire shaft. All our work is going on most satisfactorily.

PESTARENA UNITED.—T. Roberts, Sept. 4: District Val Town The end of No. 4 level continues much the same as when last reported; is

which is in good order; and the shaftmen are again busily engaged in shaft. All our work is going on most satisfactorily.

PESTARENA UNITED.—T. Roberts, Sept. 4: District Val difference the rock is of a lighter colour, and the footwall more regular tains no ore to value. This end advanced in August 10-90 metres, as ix men for September at 40 fr. per metre. No. 5 end, south on the eastern was driven last month 5-25 metres; set for the present month to six men, as metre. The branch or decomposed part is now 4 in. wide; there is not the rock abounding it.—Cani Mine: The Ribasso Sasso Nero was driven it 2 metres, set for September to two men, at 60 fr. per metre. At the junctic caunter branch to footwall of lode we passed a small pocket of ore 9 in. wide caunter branch to footwall of lode we passed a small pocket of ore 9 in. wide of ore.—District of Pestarena: The walling up of the second section the most difficult part of the shaft has been finished; total secured by walling a remaining yet to reach the surface 16 metres, on which fair work is being opening out for walling and arching. The cutting down of rise between 46 levels is progressing favourably. All work connected with the new works and hoisting machinery is being pushed on with vigour.

PONTGIBAUD.—Wm. H. Rickard, Sept. 1; Roure: The 80 meters level south is in soft disordered ground. The 60 north is a title the lode is regular, composed of quartz and barytes, without any lead of the 40 metre level south ost inuse to open good ground, worth ½ for current metre. The same level north is poor. The adit north is urpor the same level south is in soft disordered ground. The 60 north is a little the lode is regular, composed of quartz and barytes, without any lead ore winze ahead of this end opens stoping ground. The 60 north is north, on the vestern part, yield with mundic and lead ore. The 80 metre level, south of the lode, yields ½ to no fore per metre. The 30 metre level north is poor. The adit north is urported to the 90 metre level, with fining yelds ½ t

TECOMA.—It is said another carload was shipped to-day 25,000 lbs. (say 22 tons). The superintendent at the furnace is very with the turn out of the ore. A larger staff of men is now being pro-

Mr. E. dolley what in the ble, and bley had the cutting has cutting a very brection

ode in terlin in exo

ompany's mines, when it is presumed that by the increased production of ore union No. 2 will be started, for which preparations are now being made. A effection of the proposed of the writing by last mail from Salt Lake City, advises us that from 20 to the proposed of th

IRON AND STEEL INSTITUTE.

The sixth annual provincial meeting of members at Barrow-in-The sixth annual propert of the two first days' proceedings was times (of which the report of the two first days' proceedings was blished in last week's Journal) was continued on Thursday, at the will fall,—Mr. I. L. Bell, F.R.S., President, in the chair.

fow Hall,—Mr. I. L. Bell, F. R.S., Fresident, in the chair.
The attendance was again very large, the Duke of Devonshire,
Lord Frederick Cavendish, Sir James Ramsden, Mr. Alex. Brogden,
Lord Frederick Cavendish, Sir James Ramsden, Mr. Alex. Brogden,
Lord Frederick Cavendish, Sir James Ramsden, Mr. Alex. Brogden,
Lord Frederick Cavendish, Sir James Ramsden, Mr. Alex. Brogden,
posed of, the reading of papers was proceeded with, the first being

AMERICAN ROLLING MILLS.

AMERICAN MOLERY, NEW YORK.

The object of this paper is to describe the general arrangement of functions that mills of recent type, and some of the more implications that manifest is the control of the machinery and practice, rather than to bring forward any remarkable novelty. The character of mill structures forward any remarkable novelty. The character of mill structures forward any remarkable novelty. The character of mill structures forward any remarkable novelty. The character of mill structures for the control of the c

ship poll it off the bogie and pass it alternately backwards and torwards unrougate mill, turning it over ar equired. Two men and a boy by means of these tables also ingot weighing 1 ton from 14 in. square down to 7 in. square by 16 or 18 uses in from 3% to 4 minutes.

The most improved features of American roll trains, for both heavy and light wit, were illustrated by drawlings of a 14½-in. bar train, constructed by Mr. John tit, at the Bethlehem Ironworks, and which was fully described. The first sensing train, in which the rolls were adjusted by power derived from the engine, is creted by the author at Troy in 1870, and has been almost constantly running 12½ and 14-in. ingots. In this mill the middle roll is shifted after each pass, to all the interest of the state of the

Mr. E. WILLIAMS, Middlesborough, would like to know from Mr sley whether it had ever occurred to the steel rail makers in America, to roll the late whether it had ever occurred to the steel rail makers in America, to roll the late, and it would not be difficult to get such exactness in the weight of the mould. I had to operate upon as to bring a circle almost exactly to the size required. The entire of the circle, and the straightening out of the rail afterward, would every simple operation; and he had thought, and still thought, that in bestian that in re was a possible economy of a very important kind, He did

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The think that they could adopt the continuous stream of lagots, as suggested by Mr. Holley, where they were to be get up to reliting heat. An economy which were more presented than any of these was that which might be effected by the property of the

ture of skill would prevent that. Great advantage was derived trom having only two crops to three rails, but if the tire system were adopted they should have no crop at all.

Mr. Windsor Richards, of Ebbw Vale, said the direct process under discussion had gone far beyond the experimental phase. He had seen it at work in France and elsewhere, and that there was not the slightest difficulty in the world in doing it. At Seraing, they were so satisfied that it could be done successfully that they were putting up plant in front of the furnaces.

Mr. JOSHUA LANCASTER said it had been carried on at Chilington for thirty years. Mr. PLUM had seen the iron run from the blast-furnace direct into the Bessemer converter at some works in Sweden eight years ago.

Mr. Syelus quite agreed with Mr. Williams that there could be no difficulty whatever in running the iron direct into the converter, and he thought he ought to know the reason why they failed before, and he entered into chemical questions connected with the subject at some length.

Mr. J. T. SNITH said it appeared to him they were discussing what they might saw well leave alone, because, as he understood from Mr. Williams, they would have the fasts before them in a very short time. He saw no reason why the fron should not be successfully run direct from the puddling-furnace, provided they could have that amount of care in the selection of the ores, and in the working and filling of their furnaces, which at present he did not see the way to obtain. Having referred to mixtures and other matters, he said some of them had modified the newer part of their establishments, which were originally compulsorily constructed under the harden rights, and it appeared to him they could not look forward to increasing the production of Bessemer steel from our converters without increasing the power of the machinery and other facilities.

Mr. Whitwell. would be glad if Mr. Holley would tell them to what he attributed the increased output in America compared with that of England.

Mr. HO

SETTING BESSEMER CONVERTER BOTTOMS.

BY A. L. HOLLEY, NEW YORK.

As Bessemer converter tuyeres and bottoms endure but about 10 heats, and often less, they must be rapidly and soundly replaced; and when works are pushed to a large and hence profitable production, such as 30 heats in 24 hours, which is the case in America, the new set of tuyeres must practically be made ready in two or three hours after the last heat on the old set. Tuyeres were formerly replaced by inserting new ones in place of the old, and making the bottom good around them, either by pouring in ganister and water, which made a soft, porous, and unsafe bottom, and required many hours for drying; or else by waiting till the converter was cool enough to enter, and then making a rammed bottom from within. Both these methods took up much time. Bessemer's system of duplicate bottoms previously rammed and ciried, to be inserted in place of the worn bottoms, was a great improvement, but still the annular space between the bottom and the wall of the vessel had to be stopped by one of the objectionably long method just described. Then, another of Bessemer's plans was used—covering the face of the new bottom with a luting of plastic clay and ganister, and then squeezing it hard against the wall of the vessel, so that the luting should fill the joint. This did not always answer when the faces of the joint became irregular, and the metal would sometimes break through. Finally the plan was adopted, and has become general in America, of constructing the vessel is still red-hot. The whole operation may be performed in an hour, so that one pair of converters is always ready for use. The new bottom, being dry throughout, wears longer than if damp or if dried in the vessel. The material forming the joint being driven in all the interstices is as solid as the walls, and never gives way. The improvement may readily be applied to converters in use.

The PRESIDENT said that there was no doubt that in America they were doing great things in the manufacture of Bessemer steel, and they were doing As Bessemer converter tuyeres and bottoms endure but about

were doing great things in the manufacture of Bessemer steel, and they were my doing so, but were ready to come here and tell them how they were doing if anyone was entitled to thanks he thought it was the gestleman who had the last two papers. He might take the opportunity of asking Mr. Holley to the meeting any information he could with regard to the superiority of the

to give the meeting any information he could with regard to the superiority of the action of the gas furnace.

Mr. Williams would like to ask Mr. Walker, who had had a good deal of experience of Bessemer machinery, what he thought of the possibility of rolling ralls, tuyere fashion—say, in rings of 24 ft. diameter, opened out and straightened at the end of the operating without re-heating?

Mr. WALKER thought there would be no difficulty in rolling tuyeres.

Mr. HOLLEY said, with regard to the economy of Siemens' gas furnace, they were using between 350 and 400 lbs. of coal for heating ingots, and about the same for re-heating, and in the ordinary furnace from 800 to 1000, sometimes more. Many points had been mentioned, but as they were pressed for time he would only refer to the most important. Large production was economic up to a certain point—say, 160 to 175 tons per day. Several spurts have been made in America, and 50 heats obtained in 24 hours, but beyond the point he had mentioned it was not economic. The stream of ingots going into the furnace applied only to the ingots, and not to the blooms; of course those had to be charged. The use of blooming rolls before one another had never been attempted in America. There they considered that it would be more complex, and the repairs would probably be greater, than by their present system.—The next paper read was on—

THE MANUFACTURE OF BESSEMER STEEL.

BY B. WALKER, LEEDS.

This paper, which was accompanied by several drawings, gave a description of some of the most important appliances used in the manufacture of Bessemer steel. In the opening address of the President at London he told the members that the coal panic, which disturbed the whole trade of the country, would have been avoided if 5 per cent. more coal had been obtained, or 5 per cent. less required. Mr. Walker believes this observation is founded on sound commercial principles. Apply it to the manufacturing of puddled iron and Mr. Walker believes this observation is founded on sound commercial principles. Apply it to the manufacturing of puddled iron, and then imagine what would have been the condition of the iron trade had it not been for the invention of Mr. Bessemer. He would confine himself to a description, pure and simple, of the machines lately made by his firm for some of the most eminent producers of Bessemer steel. The paper described a pair of high-pressure horizontal engines, suitable for blowing the capola steam cylinder, 12 in. diameter, stroke 30 in.; air ditto, 36 in. diameter and 30 in. stroke. The air cylinders are fitted with piston valves, and arefurther provided with leather relief valves, to prevent either vacuum or undue pressure; also to absorb the air contained in the clearance between piston body and cylinder cover. This combination of piston and

MINES REGULATION IN BELGIUM AND GERMANY.

Some interesting particulars relative to the administration of mines in Belgium and Prussia are given, in reply to the Foreign Secretary's letter of enquiry, by the British representatives at Brussels and Berlin. There is no Minister of Mines in Belgium, but mines, quarries, turbaries, fixed steam-engines, metal, glass, and alum works are placed under the supervision of a "Directur-General des Ponts et Chaussées et des Mines," who is subordinate to the Minister of Public Works. His staff consists of an inspector-general, with a salary of 3601, per annum; 35 engineers, ranked in five classes, with salaries ranging from 3204, down to 1404.; 14 subengineers, with salaries from 1204, to 1404.; and 7 clerks, who receive from 724, to 40′. There are practically no mines owned by the State in Belgium. Three small iron mines belonging to the Great Laxembourg Railway Company have been taken over with the railway itself in 1873. One of these is leased to a private individual; the other two are not worked at all.

With regard to Prussia a very valuable memorandum on the general management of the mines, and also respecting the administration and working of the Prussian Government mines, has been furnished by his Excellency M. Von Bülow. It appears that the Prussian Minister of Commerce, Trade, and Public Works is at the head of the Prussian administration of mines, which forms the first of the five departments of the Minister. Trade, and Public Works is at the head of the Prussian administration of mines, which forms the first of the general mining law of Prussia of June 24, 1805, by the district according to the general mining law of Prussia of June 24, 1805, by the district according to the general mining law of Prussia of June 24, 1805, by the district according to the general mining law of Prussia of June 24, 1805, by the district according to the general mining law of Prussia of June 24, 1805, by the district according to the general mining law of Prussia of June 24, 1805, by t

tor") varies from 1200 thalers (180%) to 2000 thalers (300%), with house free and office expenses paid. The Government owns coal and metal mines. It administers them through the above-mentioned mining officials (mining board directors and mining superintendents), on account of its own treasury. The Crown of Prussia does not own any property of this kind. The Government mines are not, as a principle, let on lease, and when in isolated cases certain bits of the Government seams or veins have been let to other parties, they are only most insignificant lots, which, on account of their unsuitable position, cannot conveniently and properly be worked on Government account. The rent is then based on the measuring unit of the gross produce, a yearly minimum of production being fixed for that purpose. Private mines in Prussia are subject to a special tax on the sale of the raw produce. This amounts to 2 per cent. of the gross receipts.

ROCK DBILLS.—A machine is described by Mr. CAMILLE FERROUX, of Goeschenen, in which the front portion, with the tool carrier and tool, is fixed to a hollow piston rod from a cylinder forming the rear portion. Air or other fluid under pressure is admitted into the back of the rear cylinder and tends to constantly press forward the hollow piston rod and front portion of the machine, and at the same time passes through it to a cylinder in front and gives to its piston a reciprocaling motion, thus giving a jumping motion to the tool. A shaft at the side worked by a small engine gives an intermittent rotary motion to the tool, and also works the valves of the front cylinder. Arrangements for regulating the advance of the tool and for withdrawing it are also described.

ance of the tool and for withdrawing it are also described.

HOLLOWAY'S OINTMENT.—Bad legs, wounds, ulcers, and all deriptions of sores, are immediately cured by the proper and diligent use of these
sestimable preparations. To attempt to cure bad legs by plastering the edges of
se wound together is a folly, for, should the skin unite, a bagy diseased condion remains underneath, to break out with tenfold fury in a few days. The only
titional and perfect treatment is to reduce the inflammation in and about the
ound, to seothe the neighbouring nerves, to cool the heated blood as it courses
long its vessels, and to render the thin, watery, ichorous discharge consistent and
ealthy. Happly for suffering humanity, Holloway's Ointment, assisted by judilous doses of his Pills, accomplishes these ends with unfalling certainty. ratio

Mining Correspondence.

BRITISH MINES.

ABERDAUNANT.—S. Toy, Sept. 9: Setting Report: The No. 2 adit, to drive ast, at 7l. per fathom, for the month. The south part of the lode, which we are low driving, is 5 ft. wide, composed of clay-slate, carbonate of barytes, sulphur, not stones of lead, with lode standing to the north 12 feet wide. No. 4 stope, at l. 19s, per cubic fathom for the month. The lode in this stope is worth 13l. per which fathom for lead.

east, at 1t. per naturn, and stones of lead, with lode standing to the north 12 feet wide. No. 4 stope, at 8t. 10s, per cubic fathom for the month. The lode in this stope is worth 13t, per cubic fathom for the month. The lode in this stope is worth 13t, per cubic fathom for lead.

ASSHETON.—M. H. Whitford, J. Craze, Sept. 9: The 50 end west, on the north part of the lode, has been driven since our last report about 2½ fms.; the lode is yielding small portlons of lead, but not sufficient to value. The 40, west of Mawy's shaft, has been extended about 5 ft. since our last report: the lode is large, intermixed with small portlons of lead, but not sufficient to value. The lode in the winze sinking below this level will yield about 4½ tons of lead per fathom, letting out water freely; we hope that the 50 fm. level will soon drain this winze. Two stopes in the back of the 40, east and west of No. 1 winze, will yield on the aggregate 2½ tons of lead per fathom. The ground in the cross-cut from Mawr's shaft to intersect the south part of the lode is very congenial for the production of mineral; we hope to intersect the lode by the end of this month. The 40 end, west of Browne s shaft, is being arged on as fast as possible; iode worth 2 tons of lead per fathom. The stope in the back of winze west of Browne's shaft, is yielding 25 cwts. of lead per fathom. The stope west of No. 2 winze, below the 30, will yield 1 ton of lead and blende per fathom. The stope in the back of the 8 west will yield 1½ ton of lead per fathom. We sampled 50 tons of lead for sale on the 16th inst.

BAMPFYLDE.—8. Mitchell, H. T. Haley, Sept. 8: Stowford Iron Mines: The lode in the various points fully maintains its value; we are pushing on as fast ashen nature of the work will admit to get communication to Slader's shaft.—Copper Mines: Saturday last was setting day, when the following bargains were taken:—Four stopes in the back of the 102 fm. level, by 16 men, and have two additional stopes in the same level nearly ready; the stopes are yielding

the 100 we have reached the hanging wall; the fode is 3 ft. wide, containing a small quantity of lead and blende. The pitches throughout the mine are yielding lead and blende as usual.

CAEGYNON.—T. Hodge, Sept. 5: The 70 east end is suspended, and the men (six) put to cross-cut south, at 10\ldots, per fathom. The stope in back of this level, just behind the end, is worth, for 15 ft. long, 15 cwts. of lead per fathom, by four men, at 4\ldots, per fathom. The stope in the back of the 70, east of Thomas's winze, is worth 12 cwts. per fathom, by two men, at 4\ldots, per fathom. The winze below the 30 is down about 4 fms.; these men are removed to the 50 north cross cut, where I think that the north part of the north lode is standing before us; set to four men, at 4\ldots, per fathom.

OATHEDRAL.—J. Michell, Sept. 10: Since my last report the work at this mine has been carried on vigorously. The engine-shaft is now 3 fms. 4 ft. below the 20. The lode is fully 3 ft. wide, and worth 40\ldot, per fathom, with every indication of becoming richer. The 20 west is worth 20\ldots, per fathom. In the level driving east the lode is between 3 and 4 ft. wide, composed of gossan, green carbonate of copper, and spar—a splendid looking lode. In the 10 west it is from 3 to 4 ft. wide, composed of gossan, prian, spar, and copper ore. As you will see, we have secure hold of a rich course of copper ore, and I am exceedingly satisfied with our prospects, feeling aure that in a short time this mine will be equal to the very best this celebrated district ever produced.

OEFN BRWYNO.—J. Paull, Sept. 7: In handing you a report on this mine, I beg to say that the water is out of the 104, and we have resumed the driving of that level east, where the lode is of a very promising character, and worth 1\frac{1}{2}\to the ore and shows the 100 of lead ore per fathom; and we are likely to lay open some good ore ground here. The lode in the pitch below the 92 west is large, and worth 23 cwt. of lead ore per fathom. In the pitch at the 92 and 80 ea

In the pitch at the 92 and 80 east the lode is 0 it. wite, and promeing 16 ext. of lead ore per fathom. In the pitch over and below the 80 west the lode is worth 18 ewt. of lead ore per fathom. Surface operations is proceeding regularly, and machinery working satisfactorily.

ORENVER AND WHEAL ABRAHAM UNITED.—Wm. Thomas, 8. Arthur, 8ept. 9: Sturt's Engine Shaft: The men are making fair progress in sinking; there is no change since last reported on: the shaft is down about 5 ft. below the level. In the 215, driving west, the lode is 3 ft. wide, yielding 1 ton of copper ore per fm.; this end is still spare for driving, and not letting out much water; we are anticipating a change here shortly. In the winze sinking below the 215 west the lode is 2½ ft. wide, producing 2 tons of copper ore per fathom.—St. George's Shaft: In the 203, driving east on the south lode, and west of the shaft, the lode is 1½ ft. wide, yielding 1 ton of copper ore per fathom. In the winze sinking below the 190, east of shaft, the lode is 2 ft. wide, and produces 2 tons of copper ore per fathom.—Woolf's Shaft; it is shaft, which is about 14 fms. 2 ft. below the 208, the lode is 4½ feet wide, yielding 5 tons of good copper ore per fathom. In the 208, driving west of shaft, the lode is 3½ ft. wide, yielding 2 tons of copper ore per fathom.—Pelly's Engine-Shaft: The men are fairly progressing in sinking this shaft, which is now down to the depth of about 5 fathoms 2 ft. below the level, but the appearance of the lode continues to be of much the same character as when we leat reported on it. In the 240, driving west, the lode is 3 ft. wide, yielding a little tin, having a kindly appearance. In the 220, driving west, the lode is 3 ft. wide, yielding a little tin, having a kindly appearance. In the 220, driving west, the lode is 4 ft. wide, producing a little tin, having a kindly appearance. In the 220, driving west, the lode is 4 ft. wide, yielding a little tin, having a kindly appearance. In the 220, driving west, the lode is 4 ft. wide, yieldin

little. As we get out of its influence the lode is re-making, and a nice branch of lead and blende ores coming in, also water issuing very freely; a kindly lode is opening.

OWMYSTWITH.—Sept. 5: Levelfawr East, on Pengeulan Lode: The lode is still 1 ft. wide, composed of a clay-slate, spar, and small spots of lead ore.—Levelfawr East, on the Middle Lode: The lode is 3 ft. wide, composed of gossan and spar, but poor for lead ore. There are no alterations worthy of remark in either of our cross-cuts since last reported on. Our stopes and tribute pitches are producing their usual quantity of lead ore. We still continue costeaning on Copper Hill, but have not seen anything to value as yet. All the machinery is in good working order. We are getting on with the dressing as fast as possible, but the stuff is hard and poor. We sampled 12 tons of ore on the 1st instant.

DE BROKE.—T. Hodge, Sept. 7: We have nothing new to report this week.. The stopes are without change, and in Wilson's shaft we are making fair progress-All the last parcel of lead sold is now at Aberystwith, and we are in course of dress ing another parcel.

DEERPARK.—John Goldsworthy, John Bucknell, Sopt. 5: The sinking of the engine-shaft is progressing favourably. The stratum is of a favourable description for the production of copper; the branch dippling south towards the lode contains yellow sulphuret of copper, and is very promising. Judging from the bearing of the lode from the 30 to the adit, we anticinate to have to sink 3 ft. to reach the north wall of the lode; if the underlie should be a little less, we shall have tog deeper. The machinery is in good order, and works well.

DENBIGHSHINGHERIER CONSOLIDATED.—J. Pryor, Sept. 10: In the 112 east the lode which had varied its course is now in its original position. In the 112 west we have a great change taking place; the lode is about 2 ft. wide, composed of clay-spar and limestone, and on the footwall we can drive in a borer 3 ft. ahead of clay-spar and limestone, and on the footwall we can driv day we shall be successful. In driving west out of the level we are in instrate ground for producing ore in large quantities. The end is yielding lumps of lead 8 and 10 tons in weight, and from present appearances I calculate there is a good deposit not far distant.—Junction Shaft: The ground is very hard for sinking, and progress slow; but we must recollect that the same bar had to be passed through in Parry's shaft before the lead was discovered. Now that the 112 west is in such soft ground, we cannot be long before effecting the junction, enabling us to command both the eastern and western portions of the mine to considerable advantage, and it should be remembered that our operations can be conducted upon actual discoveries of ore.—Helena Shaft: We are now commencing to drive out on the flat, and expect good things. The machinery throughout the mine is in good condition, and the men working well.

EAST CARADON.—James Kellow, Thomas Trelease, Sept. 9: Fair progress is being made in the 130 and 115 driving north on cross-course towards the caunter and Fawcett lodes. In driving east on branch in back of the 70, which is worth 122, per fathom. At the 40, on Child's, we have commenced to cross-cut south to see if there is more lode in that direction.—Marke's Lode: In the 72 east the lode is 2 ft. wide, chiefly quartz. In the 60 east the lode is 15 ft. wide, but disordered; the water is increasing in this level.

EAST DARKEN.—Sept 10: In the stopes over the 116 the lode, on an average, is 1½ yard wide, producing from 15 to 18 cwts. of lead ore per fathom. In the stope over the 104 the lode is 5 ft. wide, yielding 18 cwt. of lead ore per fathom. In the stope over the 104 the lode is 5 ft. wide, yielding 18 cwt. of lead ore per fathom. In the stope over the 104 the lode is 5 ft. wide, yielding 18 cwt. of lead ore per fathom. In the stope over the 104 the lode is 5 ft. wide, yielding 18 cwt. of lead ore per fathom. In the stope over the 104 the lode is 5 ft. wide, yielding 18 cwt. of lead ore per fathom. In the stope

EAST WHEAL GRENVILLE .- E. Hosking, W. Bennetts, Sept. 5: There is no

EAST WHEAL GRENVILLE.—E. Hosking, W. Bennetts, Sept. 5: There is no change in any of the bargains since our last.

EAST WHEAL GRENVILLE.—E. Hosking, W. Bennetts, Sept. 10: The lode in the 130, west of engine shaft, is 2½ ft. wide, and worth & per fathom. There is no change in the 120 fm. level cross-cut north. The stope above the 120, west of engine-shaft, is worth 5ℓ. per fathom. The 110 west is looking much the same as last reported. The lode in the 110, east of engine-shaft, is 18 in. wide, and worth 6ℓ. per fathom; the ground is favourable for driving, and the end is letting out more water. The lode in the 95, east of cross-course, is 2 feet wide, and worth 8ℓ. per fathom. The stope above the 95 east is worth 6ℓ. per fathom.

FRON VELLAN.—Capt. Harper, Sept. 9: In the cross-cut driving north of level, west of deep adit, there has been no change since my last, the ground being of a very promising character; and as we are daily expecting to intersect the lode, providing it keeps its proper bearing; by what is seen in the deep adit cross-cut we cannot be far from meeting with it, but as the lode gets into the hill it is possible that it may take a throw or heave to the north; if so, we shall have a few fathoms more to drive before we intersect it. During the past month this level has been driven 4½ fathoms, and is re-set to four men, at 108s, per fathom, for one month, or cut the lode; the men to put out all their stuff to surface for the same. The cross-cut driving south of shaft has been driven during the past month 6 fms. 2 ft., which is very promising; the indications presented in the driving of this cross-cut driving south of shaft has been driven during the past month 6 fms. 2 ft., which is very promising; the indications presented in the driving of this cross-cut afford abundant evidence to calculate on a speedy intersection of the lode, which we are expecting daily; this level has been re set to nine men, for one month or out the lode, at 8ℓ. per fathom; the men to raise all stuff and water to surface

"AGWYON COPPER.—George Rove, George Rove, jum., Sept. 5; There is no particular change in the character of the ground in King's engine-shaft sinking below the 105 since our last report, and our progress during the past week is very satisfactory. The lode in the stopes in the back of the 70 cast is worth 10, per fathom. The lode in the stopes in the back of the 70 cast is worth 10, per fathom. All other points without change.

All other points without change.

11. — "All other points without change of the points were an expected only in the change of the change of

the lote at the 40 east since last week; it is producing much the same for blende. The men are progressing fairly with their driving, and we have only 2 fines. In the to drive to get under the perpendicular of the Peru silver lode at the 30, so I hope by we shall meet with something good very shortly.

GREAT WHEAL LOVELL—Joseph Prisk, Sept. 10: Good progress is being made in driving the 44 cross-cut south. In the 34 cross-cut the ground is rather, hard and spare for working, consequently we are not so far advanced as we are father; it thinstone is becoming richer as we sink, and is similar to what I have fee broken in the old mine. In the cross-cut north in the 34 we have intersected the lode, which is 18 in. wide, worth 81, per fathom; the ground here is exceeding add that this lode is whole from the 34 to surface, and as soon as we have opened add that this lode is whole from the 34 to surface, and as soon as we have opened and that this lode is whole from the 34 to surface, and as soon as we have opened and that this lode is whole from the 34 to surface, and as soon as we have opened and that this lode is whole from the 34 to surface, and as soon as we have opened and that this lode is whole from the 34 to surface, and as soon as we have opened and that this lode is whole from the 34 to surface, and as soon as we have opened and the state of the 24 to 15 to 15

LADY CONSTANCE.—Sept. 10: I am giad to say that the ore in the organical value, at Katie's shaft, has improved since last week, and I think we shall be able to make some good returns from here. There is no change in the cross-cut at the old shaft since last week.

LISBURNE.—Sept. 10: Glogfawr: The 75 is now within 2½ fathoms to the line of the cross-course, and which we hope to reach this month. We have resumed driving the 60 east, which is about 4½ fathoms behind the winze now sinking below the 45, in which winze we have 3 fathoms yet to sink to communicate to the above named level, and when completed this will throw open a good length of stoping ground. We have not yet intersected the north part of the lode in the 20, which is being pushed on by four men. The 45, about 40 fathoms west of the engine-shaft, is being driven 5 fathoms east of the cross-cut, on the north part, where the lode maintains its size, and looks promising. The winze below the deep adit is down about 2 fathoms, and there are about 10 fathoms more to sink to hole to the stope below.—Glogfach: The 130 west is still very poor, and we have set two men to cross-cut south.—Frongoch: In the 130 east, on the south part, the lode is very large, the part we carry yielding at present full 2 tons of lead ore per fathom, with more lode standing to the north. The lode in this level is more promising than anything seen in the level above. In the 130 west the lode is 16 ft. wide, and worth for width 2½ tons of lead ore per fathom. This level also is much more promising than anything seen in the level above the 117. The stope over the 130, on the north part, still maintains its value of 5 tons lead ore per fathom for width of the lode. Taylor's shaft is going down in favourable ground with the slide to the south, and the south wall of the lode to the north of the shaft, and all the best bunches we have yet seen in Frongoch have been under the slide, The 105 will soon be undr the best bunch seen in the; eastern part of the mine.—Graigoch it he lode in the 1

fathom, but the water being very quick we have to bring forth the level of the it. The 60 east is full of stuff, which gave way while the water was in. Inherent together with the western one, is about entering the bunches of ore worked on the upper levels. Frongoot Big Pool is 8 ft. below the flow, Rhowyd 2 ft. dine, and we have a good supply from Tyn-y-bwich, which is a considered ad. Lynfarthea pools are nearly full. We have this day sampled as follows:—From Logrand and the state of Bickford's slaft, is 4 ft. wide, and worth 7t. per fathom. The stope below the 54, west of Bickford's slaft, is worth 8t, per fathom for the and opper one. The lode in the 58, west of Pool's shaft, is 5 ft. wide, and worth 8t. per fathom. The lode in the 58, west of Pool's shaft, is 5 ft. wide, and worth 8t. per fathom. NEW SOUTH MERLIYN.—R. Rowlands, Sept. 10: We have a fine-looking vein driving north from the main shaft, yielding at present lumps of ore. Julying from the heading side, I cannot help thinking we are approaching a gool body of lead.

NEW SOSEWARNE.—J. Curtis, Sent. 9: The 24 is wather.

yein driving host that is given the property of the property o

pend on our doing, and we still have confidence in soon reporting the cuting of lock which will greatly improve our position.

NORTH TRELEIGH WOOD.—Wm. Tregay, Sept. 9: The lode in the deep and the september of the september of

ampling.

OLD TREBURGETT.—W. Hancock, W. T. Bryant, Sept. 9: We have no particularly new to inform you of since our report last week. We have set to drive south of the shaft 2 fms., take out penthouse, divide and case the from the 80 to the 90, cut tip-plat, and take out a piece of ground the weter of the shaft, &c., in order to commence driving north at this level when the p completed; this work is set to nine men, per contract 67t. The weigh-big fixed in its place. The house will be covered in this week, and we are goin ward with the new jigging-machine work. We will send you a detailed next week.

of the shaft, &c., in order to commence driving north at this level when the plate completed; this work is set to nine men, per contract of?. The weigh-bridge in fixed in its place. The house will be covered in this week, and we are going ward with the new jigging-machine work. We will send you a detailed region ward with the new jigging-machine work. We will send you a detailed region ward with the new jigging-machine work. We will send you a detailed region ward with the new jigging-machine work. We will send you a detailed region of the received which were the send of the property of the property

which they will raise a good parcel of ore. No other change.

PRINCE OF WALES.—J. Gifford, Sept. 10: No change in the mine to noise.

We are getting on well with our sampling, which, we think, will be the best whave had for some time.

QUEEN'S (Silver-Lead).—E. Evans, Sept. 9: Since my last report I have begue to sink the Gladstone shaft deeper below the 140 yard level, and with four meal am making good progress; the 'ground is good, and very strong. The 19 yard level is very promising ground, of limestone, spar, and clay. The 80 yard level is rather hard for progress, being a marrow joint of spar and clay. The 80 yard level in, which I trust will soon open out with good results; the roof is also a fair joint of spar, clay, and lead, but not quite so good as what I have seen it. The 169 yard level, west of Cambrian (the Hopewell lode), is improving in appearance, nice ground, but narrow, with clay and spar of good character.

ROMAN GRAVELS.—A. Waters, Sept. 10: The mine is looking quite as well as when reported on last week. To-day we have sold 230 tons of lead ore, realing the sum of 3127. 10s.

ROOKHOPE VALLEY.—D. Brown, Sept. 10: The stopes and rises in the upper levels are about the same as I last reported. No. 3 winze from the 28, I stated a commenced in my last, is now down 11 fc., has very much improved, and willay commenced in my last, is now down 11 fc., has very much improved, and will so the stop of lead or to per fathom. This point is now about 140 fms. from saft. These winzes are being sunk for a future benefit, to open out the mine quicker have the 42. The rise from the 42 will be holed in a day or two. When this is don't the stop of lead or to commence of the day of the order of the level as quick as possible. I will smps? 30 tons of lead or to romorow.

ROSEWALL HILL AND RANSOM UNITED.—Wm. Buzelhole, John While,

we can open out stopes and push on the level as Auto-Mr. Bugelhole, John Wh.

ROSEWALL HILL AND RANSOM UNITED.—Wm. Bugelhole, John Wh.

Sept. 10: The 60, driving west of Ransom shaft, has improved since our last. Sept. 10: The 60, driving west of Ransom shatt, has improved a port; lode 2 ft. wide, worth 8\(\ell \), per fathom, and looking promising for further provement. The north Carbona, in the back of the 100 fm. level, is looking a better than when last reported on; lode 18 in. wide, worth 12\(\ell \), per fathom; still believe that this lode will become a very valuable one again, as the group all we can desire for the production of tin in large quantities.—Goole Peliss: all we can desire for the production of tin in large quantities.—Goole Peliss: have taken down the lode in the 25 fm. level, driving west of the new fits relations—2 ft. wide, worth

all we can desire for the production of the in large quantities.—Goole Pellis: have taken down the lode in the 25 fm. level, driving west of the new flar rod sixt and am happy to say that it is quite up to our expectations—2f. wide, worth 2s in. The lode in the 25 end east is also yielding thin paying quantities. It is not looking quite so well as when last reported, as there is a hard or goodin not looking quite so well as when last reported, as there is a hard sor goodin the present end, which has changed the character of the lode. The stope in the present end, which has changed the character of the lode. The stope in the back and bottom of this level continue to look well, and our returns from this good explorations on this lode the more we are convinced that we have a good and go fitable mine before us. Of course, we must have a little time to open it out, and we can assure the shareholders this is being done with all possible speed.

SOUTH CONDURROW—J. Vivian and Son, W. Williams, Sept. 9. In the 30 cores of the control of the control

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selve in 13/18. wide, worth about 7/. per fathom. There is nothing requiring the clare points of operation.

Self H. GREAT WORK.—S. J. Med., more of other the mande, and worth self the fath out in. In the 25 cast the lole is more settled and defined than 18/. per fathorm, and with the Great Work 18/. per fathorm, and with 18/. per fathorm, and 18/. per fathor

TREVARRACK.—J. Pope, Sept. 8: We have no change worthy of any remark TREVARRACK.—J. Pope, Sept. 8: We have no change worthy of any remark since last reported.

TYLLWYD.—John Paull, Sept. 10: The lode in the 20, west of cross-cut of engleshalt, is about the same as last reported upon. The south-west lode is now split into three branches, and not so productive as last week; present value about lone per fathom. I expect these branches will come together again shortly, and will resume their former value. Measuring and setting-day on Saturday. Full report next week. All going on well.

YalfGHAN.—Sept. 10: In the deep adit level east the part of the lode being carried is 5ft, wide, chiefly composed of a light clay-slate, carbonate of lime containing small branches of lead, but not a sufficient quantity to value. In the 32 seas we have resumed driving, after draining the mine; the lode at this point has become unproductive through the lode being broken up and disordered by cross-measures of ground. In the 32 west we have suspended driving in consequence of the stream of water cut into increasing if extended; but this point we anticipate will be drained by the deep adit level as advanced castward. The water-wheel and bitwork are in good working order.

WEST CHUYERTON.—James Juleff, Richard Nancarrow, William Nicholls, Sept. 10: The new engine-shaft, sinking below the 140, is down 3 fms., and making in progress in sinking. In the 140 cross cut north we have intersected the north loie, and so far as seen is producing good saving work for blende. The men in levie, 10 was a second to the south lode, but so far cut into it is unproducing the 10 was the cutting through the south lode, but so far cut into it is unproducing to large and the law of the law o

ne-which is all virgin ground—have been pushed forward as fast a Soundary shaft has been sunk 19 fms. 3 ft. The ground we are now this of an exceedingly encouraging nature; and, judging from its of

botches of chert, glist, &c., with a very dark lime rock, but I consider this is to be attributed to the influence of the lode, but after a little further driving I have no doubt but the ground will become more settled, while looking at the several lodes which pass through your property, and their proving so productive to the east of your present workings, and also the locality in which your mine is surrounded. I do not see but the chances of a great success is in your favour. One point to which I would wish to call your attention is that your present shaft is a very small one, and not adapted for carrying on much work, at the same time if success be met with soon a new shaft can be sunk at a more convenient spot for carrying on the mine. By referring to a report which I made about four year since on the Old Bryn Ford Hall Mine, which I believe is now your property, and will, no doubt, help to illustrate your property, I found that a cross-cut is being driven north at the 70 yard level, about 80 yards from the shaft, called the Page's shaft; from the starting point north, about 30 yards, a lode was intersected, which I strongly recommended the party to open on westward. Again, about 80 yards from the starting point north another lode was met with of a very promising character, but nothing was done on either lode. Again, about 40 yards further north another lode was met with, which is the celebrated Old Milwr lode. Therefore, knowing you have these points before you the conclusion that I come to is that you have a very good property, and that I see no reason to doubt but that it will, with good management, open out a good mine. One great point is you will not require any steam-power for many years to come. If you would wish to have a copy of my report on the Old Bryn Ford Hall Mine, made four years since, I will send it you, and any further assistance that I can afford I shall only be too happy to do it; in the meantime I will try my best to induce any friend of mine to take shares in this mine, wishing you ever

two men, at 12/, per fathom; worth 2½ tons per fathom. The stope in the back of the 4%, south of old men's winze, by two men, at 2.10s, per fathom; worth 2 tons of leav' and 3 tons of blende per fathom. This ground is likely to turn out well against the shale.

WEST WILL All 25: we had to cut ground in several places in the shaft to make room for the H-piece: the rods, pumps, &c., are in the course of sending down. The lode in the rise in the back of the 125 continues to yield 9 tons of good ore per fathom. The stopes cast of No. 1 rise are yielding 7 tons of ore per fathom. The stopes cast of No. 1 rise are yielding 7 tons of ore per fathom. There has not been any lode taken down in the 116 fm. level and the properties of the same level, west of No. 1 rise, are yielding 12 tons of ore per fathom. There has not been any lode taken down in the 116 fm. level and the properties of the same level, west of No. 1 rise, are yielding 12 tons of ore per fathom. There has not been any lode taken down in the 116 fm. level and the rise, when there will be good ventilation for driving the 125 fm. level end west. The 95 rise has been communicated with the winze, when there will be good ventilation for driving the 125 fm. level end west. The 95 rise has been communicated with the winze, the men are now clearing their stuff, and to-night we shall at the 95 end to drive by eight men; this is an individual of the properties of t

opinion that we have a splendld mine before us. And 1 do not again nessuate to say that when fully developed the shareholders will receive cent. per cent. for the money laid out.

WHEAL PEEVOR.—A. T. James, Wm. Pryor, Sept. 5: We beg to hand you this day's setting report:—Sir Frederick's shaft to sink below the 48, by nine men, at 28!, per fathom; the lode is 5 ft. wide, worth 50!, per fathom for 12 ft. in length. The 48 plat is now almost fluished, and the greater part of the water taken up in this level; every effort will be made to urge on the sinking of this shaft with all the force at our command. To stope the bottom of the 48, to open and secure it west of Sir Frederick's shaft, by four men, at 50s, per fathom; the lode is from 3 to 4 ft. wide, worth 16!, per fathom. This stope will unwater about 4 ft. more of the reported rich course of tin left by the ancient workers, but we shall not be able to drain it to work it to advantage until the 58 shall have been brought under it. The 30, east of 8ir Frederick's shaft, on the south part of the lode, to four men, at 9!, per fathom; the part being driven on is 5 ft. wide, worth 10!. per fathom, and judging from the good pitches in the back of the 48, in advance of this end, an improvement of a substantial character may be expected in driving a few fathoms in the rever pleased to say the tribute department never looked better or more promising than at present. On Thursday last we sold 184 tons of tinstone, which realised about 280!. or an average price of about 280. per ron clear to the mine. The quantity of black tin contained in the stone was about 6 tons 14 cwts. 2 qrs., at an average of about 24 lbs. per ton, which is very much beyond the average of this county. This in itself proves the ich character of the lode. We hope to sell about "tone of tin more shortly.

WHEAL UNX—William Rich, Matthew Rogers, Sept. 5: The 100 fm. level end, east of King's shaft, is worth 10!, per fathom. The 140 east is worth 10!, per fathom.

rage of about 3s lost per box, which is very much beyond the average of the ords. We hope to sell one of tin more shortly.

L UNY.—William Rich, Matthew Rogers, Sept. 5: The 100 fm. level of King's shaft, is worth 6l, per fathom. The 120 east is worth 10l, per The 130 east is worth 10l, per fathom. The 40 east is worth 7l, per fm. east of Goodingo's, carries a little tin. The 16'0, east of sump, is worth thom. The 160 is worth 5l, per fathom. The 150 west is poor. The 140, nelline, is worth 10l, per fathom. The rise in the back of the 120 west is vorth 10l, per fathom. The 40 west is worth 5l, per fathom. The 40 west is worth 5l, per fathom.

she. Beaman and any staff has been sunk it firms. 3 ft. The ground we are now passing supplied in the beam study it firms. 3 ft. The ground we are now passing supplied from the observed in the staff of the staff o

ranted; indeed, it cannot be said they are based at all upon the present aspect of the property; for speculation has within the past three or four months been very heavy in the shares, and it is well known that a good number have to be delivered this month at very low prices. In a word, a struggle is going on between the "bulls" and "bears," and at the moment "the bulls have it;" whether they will retain the mastery is another question. Juvestors will, doubtless, be able to judge for themselves what the final result is likely to be. The closing quotation is 12s. 6d. to 15s. In foreign mine shar a business has been extremely quiet, Richmonds, Flagstaffs, and Sweetland Craks having received the mot attention. The first named maintain their price, although the promised greatly increased returns have not yet been announced; still, the mine must be doing well. Flagstaff shares remain flat, in consequence of the dead-lock between the board and the vendor; the mine, it is reported, is looking very good, and we are told that there is every chance of all liabilities being cleared off from the profits which are now being made.

JAMES H. CROFTS.

SUDDEN DEATH OF CAPTAIN GARBY.—Our notice of the decease of Capt. William Garby, the well-known manager of the East Pool Mine, under peculiarly melancholy circumstances will be read with general regret. The tin from East Pool being carried to the smelting-house at Bissee on Wednesday, Capt. Garby, as usual, went to see it weighted, and to agree for the price. It was sold, and he dined there apparently in his accustomed health and spirits; but on going into the yard after dinner was taken poorly, expectorating blood, and died in less than half an hour. Although this was not the first attack he had had, there was no reason to expect a recurrence at present. His remains were removed to his house at Redruth the same evening. The deceased was a man on whose word thorough dependence could be placed. Although reticent in manner to strangers, to friends and acquaintances he was known to be genial, warm-hearted, well read, and very far above the average for intelligence; his remarks on all occasions were felt to be worthy of notice, and the result of deep thought. He had such confidence in the future of East Pool that for some years he had held nearly a sixt part of the mine—about 1000 shares—to which he has steadily stuck, notwithstanding the many elevations and depressions of the mining market, his aim to the end of the mine mercase rather than diminish his interest in the concern. The mine, of which he was for many years the manager, and to which he gave his whole time and attention, is one of the best conducted in Cornwall; and though the deceased had to contend with many difficulties in its working, his sound judgment and deliberation invariably resulted in a successful issue. Capt. Garby was 60 years of age.

the many elevations and repressions of the mining market, his aim to the end which he was for many years the manager, and to which he years his we heard with and difficulties in its working, his sound judgment and deliberation invariably resulted in a successful issue. Capt. Carby was 0 years of age that the control with many difficulties in its working, his sound judgment and deliberation invariably resulted in a successful issue. Capt. Carby was 0 years of age the control invariably resulted in a successful issue. Capt. Carby was 0 years of age the control invariably resulted in a successful issue. Capt. Carby was 0 years of age to develop the capt. The capt. The capt. The capt. Capt.

oity Wood.
CORNISH MINE SHARE MARKET,—The share market during the CORNISH MINE SHARE MARKET.—The share market during the past week has been transacted, and that confined chiefly to West Tolgus, South Cara Brea, Tincroft, West Basset, Cara Brea, Cook's Kitchen, West Frances, South Crotty, and Dolcoath. With the exception of West Tolgus, shouth Cara Brea, Tincroft, West Basset, Cara Brea, Cook's Kitchen, West Frances, South Crotty, and Dolcoath. With the exception of West Tolgus shares, which have advanced to 67, 69, prices remain about the same as in our last. Although there has not been much life in the tin market during the week, prices of tin have alightly stiffened. The smelters' stocks are very small, and they readily give 29s. above the fixed standards. Copper advanced 4.5s. on Friday last. On the whole, there is now a little better inquiry for shares than in the early part of the week, and the share market closes firm. We are fold by some correspondents that the last straw is on the back of Cornish mining. We do not believe it; we believe Cornish mining can bear a sheaf of corn, even if it cannot support a mow. Cornish mining contains a germ of life within itself. Coals and materials are cheaper now than when tin was higher, and so is labour. Mines are worked more economically now than they were. When tin was 140t. per ton, if we were asked how the mines were

count-house expenses, and they should at least be curtailed. West Tolgus as have been largely dealt in, and have improved from 64, 63 to 67, 69, at which leave off. Kitty (8t. Agnes), 6½ to 7, quiet. Wheal Uny, 1½ to 1½. Book shares weaker, 20 to 22½.— West Briton.

IMPORTANT DISCOVERY.—An important discovery was made at Crenver and Wheal Abraham Mines. Wendron, recently, a lode having been discovered at Woolf's shaft. It is about 5 ft. wide, composed of purple copper (horse flesh) and bell metal ore, and very rich. This discovery will have a very beneficial effect upon the district, which at present is in a very depressed condition. The present managers have been vigorously prosecuting operations for the past 12 months, and are at last rewarded by this discovery. The mines are worked chiefly for copper, but a little tin is produced.

WHEAL MARY TIN MINE. - This mine was offered for sale by the wheal and state and after a sirited competition was knocked down to Mr. John Martyn, the well-known and much respected founder of Wadebridge, for the sum of 1100. Mr. Martyn, it is understood, has associated with him in the purchase some gentlemen who, having great confidence in the mine, have resolved to work it in a legitimate manner, when there seems to be little doubt of its proving a great prize. Some surprise was ma-ifested at the non-appearance at the sale of any representative of the company, particularly as it was stated that the mortgagee had offered to stop the sale on payment of the interest and the dead rent for which the landlord had distrained.

WHEAL VINCENT,—This sale was held on Thursday as a going neer. It was started at 400l., and bought in at 3000l., and there was no sale. he reserve was considered about the value of the machinery, materials, &c.

FRANK MILLS,—(Telegram.)—The lode in the 115 south has im roved, and now producing 6 cwts. of lead ore per fathom; a very promising lode

* .* With this week's Journal a SUPPLEMENTAL SHEET is given With this Week's Journal a SUPPLEMENTAL SHEET IS given, which contains—Original Correspondence: Iron and Steel Institute at Barrow: Barrow Hematite Iron and Steel Works; On the Tin District in New South Wales; Sutphur in Iceland (C. C. Black, J. J. Hjaltalin); Coal Mining in Italy—the Sasso Forte Collieries Company (W. J. Jacob); Mineralogy, No. VI. (W. White); Royal School of Mines, London; To the Landlords Cornwall (R. Tredinnick); Cornish Mining; Old Talargoch Mine, Kingston Valley; Hodbarrow Mining Company—A New Gold Region—Foreign Mining and Metallurgy—General Engine and Boiler Company's Non-Condensing Engine (illustrated)—Patent Matters, &c.—Meetings of the Canal Street Ironworks, the London Company, Gauley Kanawha Coal, Great Wheal Vor, Cwm Ricket and Maesnant Lead, Perkins Beach, West Bryn Celyn, East Basset, and Lanestosa Lead and Zinc Companies.

The Mining Market: Prices of Metals, Ores, &c.

METAL MARKET-LONDON, SEPT. 11, 1874.

					ML AS	A 24	D MARKET - HONDON, D.		,		
COPPER.			d.			d.	IRON. per ton. &		d. £		
Best selectedp. ton	87	0	0-	88	0	0	Bars Welsh, in London 9		6-	-	
Tough cake and tile.	85	0	0-	86	0	0	Do., to arrive 9		0- 9		
Sheathing & sheets	91	0	0-		0	0	Nail rods10			10	
Bolta	98	0	0-		0	0	" Staffd. in London11	0	0-	-	
Bottoms	93	0	0-		0	0	Bars ,, ditto11	0	0-14		-
Old		0	0		0	0	Hoops,, ditto12	0	0 - 13		-
Australian	86	10	0-			0	Bars , at works 10	0	0 - 11		-
Wireper lb.	0	1	03/4			-	Hoops,, ditto11	0	0-14		-
Tubes	0	1	01/	-0	1	1	Sheets, single, & plates13	0	0 - 15		-
BRASS.			De	rlb			Pig No. 1, in Wales 5	0	0-6		-
Bheets							Refined metal, ditto 7	0	0-8		-
Wire			10%	d.	110	١.	Bars, common, ditto 8	7	6-8	10	(
Tubes	****	****	110	11	2d.		Do., merchant, f.o.b. } 9	0	0-	_	
Yellow metal sheathi	ng		86	1	33/6	ı.	Do., railway, in Wales 7	0	0-8	0	-
Sheets	- 6		734				Do., Swed. in London.17	0	0-	_	,
SPELTER.			r to				To arrive17	5	0-17		(
Foreign on the spot		0 5	0	99	10	0	Pig, No. 1, in Clyde 4	7	6- 5		(
	9	2 7	8	- 20	10		Do., f.o.b. Tyne or Tees 4				(
	40.		0.				Do., Nos.3,4, f.o.b., do. 4	10	0-5		(
ZINC.	-		-	-			Railway chairs 5		0- 5	5	(
[n sheets	27	9 0	0-	29	5	0	, spikes12		0 - 14	0	-
QUICKSILVER (p. bot.	.) 2	3 0	0-	0	-		Indian Charcoal Pigs,	-		-	
TIN.							in London, p. ton10	0	0 - 12	0	(
English blocks £	95	0			0	0	STEEL.	1	per to	n.	
Do., bars (in bris.)	98	0			0	0	Swed., in kegs (rolled)			_	
Do., refined	97	0	0-		0	0	Ditto (hammered)19	10	0-20	0	(
Banca	99		0-1		0	0	Ditto, in faggots21	0	0-	_	•
Straits	92	10	0-		0	0	English, spring23		0 - 25	0	0
Australian	90	0	0-	91	0	0	anguary opining minimus		0 =0		-
TIN-PLATES.*		1	per	kod			LEAD.	1	per to	n.	
C Charcoal, Ist qua.	1.0						English Pig, com21	5	0-21	10	0
X Do., 1st quality			0-				Ditto, L.B21		6-	-	
C Do., 2d quality			0-		33		Ditto, W.B22	0	0-	-	
X Do., 2d quality	. 5		0-		**		Ditto, sheet23		0-	_	
on word and distanced in	. 1	7	0-		9	0	Ditto, red lead23		0 - 23	10	0
C Coke		20			15	0	Ditto, white30	0	0 - 32		0
C Coke	. 1	1.3									
C Coke	. 1	13	0-		_	-	Ditto, patent shot25 Spanish21	0	$0-25 \\ 0-21$	10	0

* At the works, 1s. to 1s. 6d. per ton less. † Add 6s. for each X. Terne-plates 2s. per box below tin plates of similar brand

REMARKS.—There is very little difference in the state of business generally, and scarcely any fresh feature of importance has arisen REMARKS.—There is very little difference in the state of business generally, and scarcely any fresh feature of importance has arisen requiring particular comment. The transactions have been of a limited character, and merely sufficient to satisfy existing requirements. The present scale of quotations does not offer any inducement to purchase for forward delivery, and it is, therefore, most likely that reductions will have to be submitted to before the demand is permanently increased. After a long run of high prices a reaction is not only expedient, but absolutely necessary, to restore the ordinary flow of business, and until satisfactory reductions are made the markets will remain in a state of suspense; there may be temporary revivals in the meantine, but nothing permanent and regular will be ensured until a readjustment takes place. The restrictions of trade, from which we have been and are still suffering, are entirely due to the maintenance of high prices beyond a proper period; there has been no over trading, and no disturbances arising from political or monetary causes. The prospects are favourable for business, providing it can be transacted upon reasonable terms, and it only remains for sellers to reduce their prices to such a point as will inspire universal confidence. Stockseverywhere are admitted to be light, but dealers will not replenish them without first knowing that they can do so safely, and consumers, as yet, do not exhibit any eagerness to avail themselves of current rates. Generally speaking, to stimulate trade dear prices have to be succeeded by cheap ones, but this will probably not be required in this instance; moderate sales, no doubt, will suffice, as the good effects of an abundant harvest in Europe and elsewhere will go far to restablish trade upon a firm and sound foundation. The blessings of a good harvest, with almost universal peace, cannot fail to exercise a most salutary influence.

COPPER.—The market for the most part has assumed a quiet but tolerably steady appearance. The pri

English manufactured have been limited, and sellers have submitted English manufactured have been limited, and sellers have submitted to a reduction. In yellow metal, also, sellers have given way ¼d. per pound, both for sheets and sheathing, but prices are again firmer, and the fall has been partly recovered, sales having been effected at 7%d. per pound, and 7¾d. is now quoted. The combination which forn erly existed among makers of yellow metal for the purpose of regulating the sale price in the home and continental markets has ceased to exist, and each firm now acts independently of others. It is, therefore, now an open trade, and consumers naturally expect to benefit by the change. In future there may be greater fluctuations than hitherto, as competition is sure to create more animated markets, and add to the amount of business.

IRON.—It is very strange while shipments of pig-iron continue to decrease that the price is not only upheld, but an actual advance obtained. Stocks, however, keep very light, and upon this opera-

obtained. Stocks, however, keep very light, and upon this operations are based. During the week a rise of about 3s. to 4s. per ton has taken place, and a firm market at the improved price. Makers or high rates for shipping iron and No g.m.h

3	bought under ors. od.	SHIPMENTS.	
		Tons	
	Decrease		1,146

a satisf ctory basis. It can only be executed their threats of repudiation. There are not many ironmasters in England who would take their bonds in exchange, or even in part payment, for their rails; and the American bayers—for some little time to come, at least—will have to pay cash terms. Independently, however, of the financial position of the American community, they can a III do better as regards price in their own country; and while this continues to be the case it is not very likely that we shall get much of their business. Such ironmasters who have hald themselves out specially for American rails are, as a matter of course, doing comparatively little or nothing at the present time. The vexations question of wages, ever cropping up and agitating the iron districts, seems to remain as unsettled as ever, and both masters and men appear as if they never would arrive at a find arrangement. The accounts from Wales are better, and there is reported more doing in rails. In merchant bars the price in London has declined 2s, 64, per ton, and Welsh bare have been sold to arrive at 94. From Middlesho ough there is no change to report – ironmasters are rather afraid of a possible stoppage on account of the attitude of the Durham colliers, and have been eager to secure

supplies of coal. Rails are spoken of as being in better request, but bars at present have not participated. Ship plates in fair demand. Staffordshire descriptions remain unaltered; sellers find it impracticable to sell at any advance, and however much some of the ironmasters might wish to work up prices, that course must be abandened until a more propitious season.

LEAD.—The firmness of the market continues, and sellers are

anticipating higher prices. Not only is there a satisfactory enquiry, but the supplies of Spanish are limited, and this will probably be so while Spain keeps in such a disturbed state. As there is no appearance of the civil war terminating, but rather the contrary, lead will, no doubt, maintain its present position for some time to come.

Spelter.—The principal transactions that have been reported in this metal have been for deliveries at out ports, and the prices realised

have ranged from 21t. 17s. 6d. to 22t. 5s., the market closing at the later price. In hard, sales have been made at 14t. 15s.

QUICKSILVER.—The advanced price of 23t. does not appear to have materially affected the demand, and sellers are firm

quotation.
TIN.—Throughout the week the market has been steady, and prices TIN.—Throughout the week the market has been steady, and prices have only undergone slight alterations. There is an absence of speculation, and no very decided expression of opinion can be gathered, either by the nature or extent of the transactions. The present demand is chiefly for home consumption; large stocks of foreign exist in first hands, but as they are well held, and prices are fairly reasonable, they do not make a very marked impression. It is the future supplies from Australia that keep the market in a state of suspense, and operators are waiting reliable information in regard to the estimated annual quantity and the cost of production and transit before venturing to enter upon any movement, either in an upward or downward direction. Straits has ruled between 91% and 93%; Australian, 90%, 108.

90%, 108.

On the 29th inst, there will be the Dutch Trading Company's sale in Holland, when 20,300 slabs of Banca will be offered; but the result is not likely to affect prices of foreign on this side, as the relative value of Banca is already so olland, when 20,300 slabs of banca will be offered; but the result is not likely to feet prices of foreign on this side, as the relative value of Banca is already so such above that of any other kind that there is plenty of room for a good fall fore it could materially affect them.

TIN-PLATES.—Orders are not very plentiful, and the reduced prices

are not deemed sufficiently tempting to influence buyers to take

so not deemed sunctionly temporary to indence dayers to take more than they want for present use.

Steel.—German monopolises the demand to the exclusion of Swedish, the difference between the two makes being about 5l. per ton. The former is sold even below the cost of Swedish iron.

Messrs. Vivian, Younger, and Bond—Copper: On the 3rd inst. the usual advices came to hand by cablegram from Valparaiso of charters for the second half of August, representing 2100 tons in fine copper (1800 tons bars and ingots and 300 tons ores and regulus), rather a full quantity, seeing that the charters for the previous fortnight were 2000 tons, and 4100 tons for the month of July. The demand, however, has been good throughout the week, and, with only moderate quantities of Chili bars offered from day to day, the price has gradually hardened from 77. to 78., at which several hundred tons have sold, chiefly per steamer to arrive during this and next month, closing buyers at 781, sellers looking for an advance of 10s. to 20s. per ton. In Australian fair sales of Wallaroo cake took place at 881, to 881, to 88., and ingot realised 881, 10s., chiefly for export Burra cake sold at 862. 10s. to 872, and ingot realised 881, 10s., chiefly for export Burra cake sold at 862. 10s. to 872, and ingot realised 881, 10s., chiefly for export Burra cake sold at 862. 10s. to 872, and ingot 874. 10s. to 871. 15s.; other brands, 841, to 884, as in quality. The demand for manufactured is hardly so active at 922, for strong sheets, tough and best selected selling at 852 and 864. Yellow Metal 9734. to 863, sheets and sheathing.—Tiv: Straits has fairly minitained its value at 928. to 93s., and for arrival 91s., while Australian ingot has offered freely at 90s. to 90s. 64 spot and landing, at which 250 tons have sold, chiefly at the former figure. At the Dutch Trading Company's sale, announced for the 29th inst., 22,300 slabs will be offered, being about the quantity expected. English ingot in fair request at 94s. 6d. to 98s.—Tin-Plates: There is more demand, and prices are steadier.

Messrs. Henry Rogers, Sons, and Co.—The activity in the metal

Messrs. Henry Rogers, Sons, and Co.—The activity in the metal trade appears to increase. Iron, copper, spelter, and lead are all dearer, while the demand for tin has improved.—Ros: Scotch pigs are 4s. dearer, Middles borough, 2s. In Staffordshire finished iron all the mills seem more busy, and makers this week are obtaining 2s. 6d. advance over quotations of a week or two back. Rails would seem to be in more demand, but consumers generally have but little faith in present quotations, and only buy for immediate wants. The general impression in the trade is that colliers wages and coal will both come down before the close of the year, and thus enable the ironmasters to reduce their quotations very materially. Such a state of things would, no doubt, greatly benefit the iron interest, but it is too early as yet to calculate upon any such reduction with certainty.—Copper: A slight reaction took place in this metal early in the week, and some hundred tons of bars were quoted at 77!. This quotation brought in eager buyers, and the price has subsequently risen 20s. to 30s., with very little copper offering. Wallaroo has realised 88! 10s., Burra 87!, 10s. In English a very large trade has been done, both in ingots and cake, at a fraction under and up to full rates, consumers being the principal buyers. Spot copper is particularly scarce, and the supply of some Chill brands very limited: 78k, was paid yesterday, 79k, being now the price asked. There is more doing in yellow metal, but the competion is very keen.—Thy: More business has been done, in the past week, importers being free sellers. The demand for plates is falling off.—Spellers: A good trade is doing, and prices for foreign have advanced 7s. 6d. to 10s. The supply of English (owing to sales effected so far forward) is still mominal; very high prices are not, therefore, likely to recede.—Lead: The supply of foreign is limited; the English makers ask 2s. 6d. advance, but buyers are not inclined to meet this advancing market. Messrs. Henry Rogers, Sons, and Co.—The activity in the metal

Messrs. James and Shakspeare-Copper: No sales reported in Messrs, James and Shakspeare—COPPER: No sales reported in furnace material, values for which remain unaltered. The Chili telegram came to hand on Friday morning last, and advised charters of 2100 tons pure for the latter half of August, of which 1800 in bars and ingots, the remainder in ores and regulus. Although about the usual average the news had rather a depressing effect, and importers accepted as low as 77. for good ordinary brands to arrive, at which figure a few spot parcels likewise changed hands. An improved demand then set in, and a good trade has been done during the current week, resulting in a rise of about 20s, per ton from the lowest point, and sellers scarce at the nominal quotations. Australian sorts are being more freely taken, and some fair parcels of Wallarco have been purchased for shipment to the North of Europe. This brand has advanced about the same as Chili bars, but prices for other makes are somewhat irregular. English participate in the general improvement, and makers are tolerably well supplied with orders.—Thy: English has been in rather better request, makers having accepted figures a trifle below those they were asking last week. Foreign sorts were tolerably active, and a good quantity (principally Australian) has changed hands, but without causing any advance in values, as the supply has proved quite equal to the demand. The Dutch Trading Company have announced their sale for the 29th inst., and will then dispose of 22,300 slabs Bancs on usual terms and conditions.—Le An: Continues firm, and smelters are asking a further advance of about 2s. 64, per ton.—Speller: It is a trifle higher in value, with a fair business doing at current rates. erms and conditions.—LEAD: Condvance of about 2s. 6d. per ton.—Sfair business doing at current rates.

Messrs. Pixley and Abell.—Gold: Bargold continues to flow into the Bank, the amount so disposed of since our last circular being no less than 438,000. Further sums will follow, the only demand for abroad being for French and American coin: snot requirements, however, are very limited. The imports this week comprise 22,950. from New Zealand, 11,400. from the Cape, 10,000. from Brazils, 580,000. from Australia, 80,000. from New York: total, 704,350.—SILVER: The price has slightly declined; and for the amounts received this week, 57 16thd. for fine silver has been realised; the market is by no means firm, nearly all orders having been filled. About 53,100. has been received from New York, and 29,500. from the Brazils. The Boyne has taken 5400. to the Brazils.

The MINING SHARE MARKET is without any material change but tin mines have been a little firmer during the week, and there has been also a fair amount of business transacted in a few low-priced

has been also a fair amount of business transacted in a few low-priced mines, with several enquiries for others. Those mostly dealt in have been East Lovell, Cook's Kitchen, Carn Brea, Prince of Wales, Pennerley, Kitty (St. Agnes), Wheal Grenville, Hingston Down, Van Consols, Marke Valley, Cathedral, Penstruthal, and a few others. Carn Brea keeps quiet at 54 to 56; Cook's Kitchen, 9\frac{1}{2}\$ to 10\frac{1}{2}\$; Dolcoath, 44 to 46; East Lovell, 11 to 12; Tincroft, 30\frac{1}{2}\$ to 3\frac{1}{2}\$; West Tolgus, 67\frac{1}{2}\$ to 70; Roman Gravels, 14 to 15; West Tankerville, 17s. 6d. to 22s. 6d.; Pennerley, 1\frac{1}{2}\$ to 1\frac{1}{2}\$; West Chiverton has improved from 2 to 2\frac{1}{2}\$; Wheal Grenville, 4 to 4\frac{1}{2}\$. Wheal Kitty (St. Agnes), 6\frac{1}{2}\$ to 7; at a meeting on the mine, on Wednesday (Captain Teague in the chair), the accounts showed a credit balance of 637. 12s. 11d. and a profit of 536/17s. 8d. Advisident of 538/17s. 6d. 637l. 13s. 11d., and a profit of 536l. 12s. 8d. A dividend of 536l. 17s 6d. (2s, 6d, per share) was declared. The agent's report, which will be found in another column, was very satisfactory. Wheal Uny, 32s, 6d, to 37s, 6d.; Devon Great Consols, $\frac{\pi}{3}$ to $1\frac{1}{2}$.

Parys Mountain, 8s. to 10s.; at the meeting the accounts, together with the directors' report (a summary of which appeared in last week's Journal), was submitted and passed. A supplementary statement showed that for the six months ending June the operations had resulted in a profit of 184%. 16s. 8d. At that time the agent valued the ores in reserve at 6000%; and, although 3000% worth have since been sold, the reserves have not been diminished. Since the accounts were made up ores to the value of 1417, 13s, 10d, have been old, 140 tons of copper ore sampled, and 300 tons of native other It was explained to the meeting that, although the assets over liabilities amounted to 3018/, it has been the custom of the directors to pay for everything in cash monthly, while the ores raised were not in cash for two or three months afterwards, and it was necessary, therefore, to have a small cash capital in hand; and, as the preference shares had not been taken up, a special resolution was passed not to issue them until the same be directed by a further spen as passed with the same be directors were authorised to receive applications for the 7077 shares (3l. paid), which will be deltaged at 10s, each, or at a discount of 2l. 10s. Under the new process for returning poor ores, arrangements are in progress which it is hope I may result in good profits to the company, and the directors.

tors are confident that if 1000/. or 2000/. be raised on the shares now authorised to be issued, good and profitable results will follow. East Van shares are rather better, at \(\frac{1}{6}\): to 1\(\frac{1}{6}\): Great Laxey, 1\(\frac{1}{2}\) to 1\(\frac{1}{6}\): Fenstruthal, 11\(\frac{1}{6}\): 12; Ladywell, 2\(\frac{3}{6}\) to 3\(\frac{1}{6}\): Penhalls, 1\(\frac{1}{6}\): 1\(\frac{1}{6}\): Penstruthal, 11\(\frac{1}{6}\): 1\(\frac{1}{6}\): 2\(\frac{1}{6}\): 1\(\frac{1}{6}\): working of 1121*L*, and a debit balance of 2329*L*. The tin sold sold lised 1369*L*. The agent's report is more encouraging, and shows two or three important points in the mine to come off, and the meeting was adjourned for a month. Wheal Peevor, 2½ to 3; the lode in the principal shaft is reported worth 50*L* per fathom. The stopein the bottom of the 48 is worth 15*L* per fathom, stoping at 50s. The points valued are worth in the aggregate 75*L* per fathom, and 11 pitches have been set to 38 men and boys, at tributes varying from 9s. to 12s. in 1*L*. About 260*L* worth of tin was sold on Thursday. West Basset, 8 to 8½: the lode in the 144, east of shaft, is worth 12*L* per fathom; the 134 west, 20*L* per fathom. The total points in operation, including 22 stopes, are valued in the aggregate at 632 per fathom.

operation, including 22 stopes, are valued in the aggregate at 632 per fathom.

Wheal Crebor, 20s. to 25s.; the lode in the bottom of the 120 is off. wide, and worth 20l. per fathom. Two stopes in the back of the 120 worth 15l. and 20l. each per fathom. The 48 east continuate to look well. At Old Bottle Hill a new winze, 7 fms. further east than that worth 10l. per fathom has just been commenced in a splendid copper lode, 3½ ft. wide. Prince of Wales, ½ to ½; the next sampling is expected to be the best for some time past. South Carn Brea, 2 to 2½; South Condurrow, 3 to 3½; South Crofty, 11 to 13; South Roman Gravels, 12s. 6d. to 15s.; Van, 22 to 24. Old fis burgett, ½ to ½; the sale of ore this month realised 1676l. 9s. The burgett, ½ to ¾; the sale of ore this month realised 1676l. 9s. The burgett, ½ to ¾; the per ton. Alterations to the machinery have retarded operations of late, but the mine is now in full operation again. Bog, ¾ to ½; the 175 has been communicated with No. 3 winze, on Whitestone lode, and the south lode intersected, which going east is worth 2 tons of lead ore per fathom, and hus improved the prospects of the mine considerably. Tankerville, 7 to 8; the lode in the 152, west of shaft, is worth 6 tons of lead oreper fathom; the 140 west, 7 tons. There are 22 bargains at work, the aggregate value being 53 tons of lead, or 711l. per fathom. Hingston Down, 1½ to 1½, and in request, owing to an improvement in the 110; lode worth 20l. per fathom. Bedford United, ¾ to 1; this mine is looking well. South Ward, 1 to 1½; the 60 south, on the North Hooe lode, is very promising for a course of ore. Cathedral, 22s. 6d. to 25s.; lode in shaft valued at 40l. per fathom. Van Cusols 2½ to 2¾; the lode in the bottom of the mine is of the sam value as last reported, 8 tons per fathom. In our last a clerical occurred—the lead ore sold should have been 4329l. 5s. Great West Van. 20s. to 25s., cum div.

Among Foreign shares Eberhardt and Aurora have been advanced to 5½, 6; the mine is said to be making large mon

The Market for Mine Shares on the Stock Exchange during the week has largely participated in the general and marked improve-

ment apparent in most metals, and the tendency at the close was decidedly favourable, pointing to increased values.

Home Mines have been fairly active, and a considerable amount of business has been transacted, especially in leading descriptions. American Mines have been generally flatter, and (with the exception of Flagstaff and Eberhardt shares, in which some activity has reversely all actives one tonding downwards.

tion of Flagstaff and Eberhardt shares, in which some activity he prevailed), prices are tending downward.

The Metal Market has been active, and closes firmly. Copper in good demand, with gradually hardening prices, although manufactured has been somewhat less active. Tin has maintained quotations. At the Dutch Trading Company's sale, on Sept. 29, 22,300 slabs will be offered. Tin-plates in better demand. Lead and spelter steady. Flagstaff, 3\frac{1}{4}\times 0 3\frac{1}{4}\times \times \times

ssed at some or the recent meetings, but it is thought not that this point may be waived, and a definitive resultannounced in the course of the ensuing week. Emma shares have be clined, and close 1\frac{1}{5} to 1\frac{1}{3}; during July 269\frac{1}{3} tons of ore were turned from the mine and concentrated from fillings, and there were sold at Salt Sake City 293½ tons, of an average value for silver of 78½ ozs. per ton; on July 31 there were on hand 20½ tons. For the preceding month the quantity sold was 365½ tons, of an average value for silver of 77½ ozs. A few days since a report was attempted value for silver of 77½ ozs. A few days since a report was attempted to be circulated that an improvement in the mine had taken place but there is no foundation for the rumour; on the contrary, theat vices are of quite a different character. Last Chance, 1½ to ½. Tecoma, ½ to ½. Utah, ½ to ½; in another column we publish a letter from the superintendent. There does not appear to be any change at the mine. The machinery is working well, and he has large quantity of dressed ore on hand, for which he is endeavouring to find a market.

nd a market.

Richmond Consolidated, 6\frac{1}{3} to 6\frac{2}{3}.—Cablegram received: "Week's Richmond Consolidated, 6\frac{1}{3} to 6\frac{2}{3}. run, \$34,000; two and a quarter furnaces; still shorthanded; min-looking well." We understand that the illness of the foreman and several of the men is the cause of only two furnaces being run lat several of the men is the cause of only two furnaces being runlast week. It appears from the present notice that the third is again started, but that the men have not all recovered. The gross amount of bullion made to date this season is \$735,000. Last year from Sept. 10 to end of December the return of bullion amounted w \$682,000, and as the supply of ore is abundant, and the three furnaces in order, there is every reason to expect as large a make up to the coming December. The financial year of the company closed at the end of August, and within those twelve months the shareholders have received 1l. 12s. 6d. per 5l. share in dividends.

Eberhardt and Aurora shareshave advanced to 5t. 5t; a cablegram

holders have received 1l. 12s. 6d. per 5l. share in dividends. Eberhardtand Aurora shareshave advanced to 5l, 5l; a cablegram announces that 1010 tons of ore were crushed during August, producing 10,872l; average assay \$63 per ton. Unofficial advices are to the effect that the debts if not already paid shortly will be, and that the mine is developing most satisfactorily, especially in the deepest workings, which is stimulating attention to other mine on the hill, and at the same time confirm the policy of Capt. Data in following the lead in depth; if this hitherto unfortunate company succeed in retaining their present manager, there is no apparent reason why the mine should not be brought into a remuner

It reason why the mine should not be brought into a scuritive condition.

Hydraulic Mine shares have been quiet, with the exception of Sweetland Creek, which have experienced a heavy fall. Now that the water season is drawing towards a close it will not be out of place to consider the various operations which the different companies have on hand for improving their position and returns in the coming year. Sweetland Creek have about 300 ft. to run to complete their main tunnel, and 250 ft. of this will be an open cut through softer rock. The extra outlay here will, therefore, some come to as softer rock. The extra outlay here will, therefore, soon come to a end, and to all appearance the company will retain its position as good dividend-paying property for many years to come. Birdset Creek has had two tunnels in hand—one into the Nesde and West claim, and the other (the Pechey tunnel) into the Stack claim, lately purchased. The Neece and West tunnel may be considered as practically finished, and but for the grant worked. purchased. The Neece and West tunnel may be considered tically finished, and but for the great extent of partially we ground that had to be cleared away before the face of the checould be touched would have proved its value during the could be touched would have proved its value during the could be touched would have proved its value during the Next year will, however, show the immense be outlet will be to the returns. Pechey tunnel on July run 290 ft,, and the shaft sunk 123 ft. This tunnel w This tunnel will be no if not quite, completed before washing is resumed, and will the open out another valuable claim for operation during the cover. Taken altogether, the outlook for this company for the sexceeding cheering. Cedar Creek has pushed forward their Kunnel or the covered tunnel so as to get, perhaps, two months' washing through

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the profits from the other claims. It has been vigorously pushed on, and, when completed, will be of the utmost value to the concern. Blue fent has commenced and almost finished a new ditch from their location on the South Yuba river to Diamond Creek, a distance of ever six miles. The remaining portion will be shortly commenced. location on the South Two Indiana Creek, a distance over six miles. The remaining portion will be shortly commenced, so as, if possible, to complete the entire ditch before the water season so as, if possible, to complete the entire ditch before the water season so as, if possible, to complete the entire ditch before the water season so as, if possible, to complete the entire ditch before the water season so as, if possible, to complete the entire ditch before the water season so as, if possible, to complete the entire ditch before the water season so as, if possible, to complete the entire ditch before the water season so as, if possible, to complete the entire ditch before the water season so as, if possible, to complete the entire ditch before the water season so as, if possible, to complete the entire ditch before the water season so as, if possible, to complete the entire ditch before the water season so as, if possible, to complete the entire ditch before the water season so as, if possible, to complete the entire ditch before the water season so as, if possible, to complete the entire ditch before the water season so as a season sea go as, il processes on again. The value of this work will be manifest in the comes of year, as during the past season the company have had to buy all the water they have used. We shall refer to this subject again

coming year, as during the past season the company have had to buy all the water they have used. We shall refer to this subject again in our next.

Sweetland Creek, 3 to 3½; there has been a drop of nearly 20s. per share to-day, ostensibly upon receipt by the shareholders of a circular containing a letter from the superintendent. It would hardly appear, however, that the fall is justified by the information in the circular. On the contrary, the only unfavourable part of the news is that referring to the channel, and this was mentioned in the directors' report, issued in anticipation of the annual meeting, and fully discussed by the shareholders. They were told then that a rise in the bed rock had cut off the channel, and that it was probable it had been turned aside by the obstruction, and would be found again by-and-bye. Mr. McLean says this remains yet to be proved. It should not be forgotten that he announced as a fact the greater richness of the side dirt, of which there is such a quantity that it will take many years to exhaust. Birdseye Creek, 2½ to 2½; a telegram from Mr. Powers, the superintendent, this week gives the result of the month's washing as a profit of \$2000. Considering that the main channel is not yet reached, and that water has to be purchased, this return is not bad. Blue Tent, 5 to 5½; the washing here will shortly be discontinued for the winter. Before the bad weather sets in, however, the company's ditch will be half-completed. Cellar Creek, 1½ to 1½; washing is going on through the new tunnel on the Yankee claim, and the superintendent anticipates good results.

Colorado Terrible, 3½ to 3½; the concentration works are a perfect success. The shipments to Liverpool are a proof of this. Three have already arrived since the running of the works, and four more are advised as en route up to the end of August. These, taken to hand, and show a profit for the month of 1000. That the vein is continuous and improving in depth there is no question, as the bases cannot fail to improve. The mining a

grade of \$66 per ton, raised at a cost of \$1060, including prospect-

during the week ending Aug. 17 amounted to 80 tons, of an average grade of \$60 per ton, raised at a cost of \$1060, including prospecting, &c.

Van, 22 to 25; the workings here are continuing much as usual. The 75 west is opening up well, and other parts of the mine remain without change. The sale this month will be of an increased quantity. Yan Consols, 2\frac{3}{2} to 2\frac{1}{2}; shares very scarce. The lode in the bottom of the mine is without change. The first monthly report will be made next week. We hear that arrangements are being made for working the eastern ground, which will have a most beneficial effect on the price of these shares. Bog. \(\frac{1}{2}\) to \(\frac{1}{2}\); a general meeting has been called to take into consideration the position of the company. The agents report the mine as somewhat improved. It would seem to be a great mistake to stop the mine just as the point to get at which so much money has been expended has been reached. We understand that the mine has been most favourably reported on by an eminent authority in the district. Pennerley, \(\frac{1}{2}\) to \(\frac{1}{3}\); the agents report the mine as without change.

Great Wheal Vor, \(\frac{1}{2}\) to \(\frac{1}{2}\); the report of the quarterly meeting will be found in another column. The company is in a sound financial position, having \(\frac{1}{2}\) so \(\frac{1}{2}\); to \(\frac{1}{2}\); to \(\frac{1}{2}\); the agenting, besides some \(\frac{400}{1}\). materials now to dispose of, and three engines, with their boilers attached, none of which are required for the future working of the mine. The manager reported that the water was fast rising in the suspended part, and he hoped they would soon have a supply to enable them to begin dressing the large accumulation of slimes, &c., on the old floors, from which regular monthly sales can be made. The committee stated in their report that the work now carried on at the mines was estimated to cost less than \(200\). per month. Penstruthal, \(11\)s. to \(13\)s.; mine opening out s

Subjoined are the closing quotations:— Subjoined are the closing quotations:—

Bog, ½ to ½; Carn Brea, 54 to 56; Devon Great Consols, ½ to 1½; Dolcoath, 4 to 46; East Caradon, 1 to 1½; East Lovell, 10½ to 11½; East Van, ¾ to 1; Great Laxey, 11 to 12; Hingston Down, 1 to 1½; Marke Valley, ½ to 1½; Pensarley, 1½ to 1½; Pe

we reine, 7s. 6d. to 10s.; West Esgair Lie, 2½ to 2½; New Zealand Kapanga, ¾ to 5½.

Collierere And Iron Companies.—A fair amount of business has been transacted during the week, chiefly in the following:—Thorp's Gawber Hall, Bilson and Crump, Welsh Freehold, Clee Hill, Chapel House, Sheepbridge, Ebbw Vale, Bolckow Vaughan, West Cumberland, New Sharlstone, and one or two others. The transfer books of Phonix Bessemer Steel are now closed until the 18th inst., preparatory to the meeting; the shares are quoted 25 to 27½. The cheapest share now in the market is undoubtedly Thorp's Gawber Hill, which can still be purchased to pay 25 per cent. The investor purchasing (say) into Sheepbridge Coal (which has just pad 2½) per cent, as against the 40 per cent. of Thorp's Gawber Hall), has to pay 30 per cent. premium, while the shares of Stavely Coal, another high paying divided concern, stand in the market at 112 (80t. paid). Some enquiry has prevailed for listock Colliery shares (10t. paid): as stated last week, the dividend is at the rate of 16 per cent. Lehigh and Wilkes Coal, 90 to 92; advices just received state that, although on several occasions the men only worked half time, the total shipments for the half-year ending June 30 amounted to 1,060,945 tons, as against 153,842 tons for the corresponding six months. The shipments during Angust were 25,000 tons; those for July are not stated. Thorp's Gawber Hall, 15¾ to 16½; Bison and Crump, 7½ to 8½; Welsh Freehold, 3 to 3½; Clee Hill, 8s. to 10s. At the me-ting, on Wednesday, of the Canal Breet Ironworks Company, the accounts for the year showed an available balanne of 30,0071, out of which a dividend of Sper ceal, was declared; the sum of 5000, was set aside to form the nucleus of a depression fund, and 18971, was carried forward. West Cumberland Iron and Sel (10½ to 14½), and Lydney and Wigpool (2½, 1½ dis.), have met with some entire, on Wednesday, of the Canal Breet Ironworks Company, the accounts for two transactions have been recorded in Palmer's Shipbuilding an ton Company have declared a dividend of 10 per cent., carry

The Liwyn Teify Lead Mining Company, with a capital of 15,0001, in shares of 14, each, has been formed to purchase and work an extensive mineral property of the same name, 14 miles from Aberystwith. The sett contains several large and powerful lodes, one of which, known as the Bwich Gwyn South Lode, has been

worked upon and proved down to 50 fathoms, at which depth fine courses of rich lead ore have been discovered, and are ready to be taken away at a very small cost, and from which a parcel of 10 tons has been dressed and sold. This lode has produced many thousands tons of lead ore in the adjoining mines, where it is found to be richer in the bottom, or 83 fm. level, than a ove, thereby showing that it improves in depth, and promises well for the future of this company, more particularly as this lode at about 50 fathoms further east forms a junction with four other po erful lodes, at which point great deposits of lead ore may confidently be expected. The other lode, which is known as Pryce's lode, has been proved for a short distance by an adit level and by a sink below the level, in both of which good course of lead ore are found, and from which a spendid pile is now to be seen at the surface. The lode is of the most promising character, and is well situated for laying open large bodies of ore ground, as by extending the level into the hill a back of 100 fms. in height will be obtained for above a mile in length. The property has been carefully inspected and reported upon by Capt. Thomas Kemp, Absalom Frances, and Thomas Pryce, who concur in predicting that with judicious management it will prove a great success. The prospectus will be found in another column.

The Phoenix Bessemer Steel Company's (Limited) annual report worked upon and proved down to 50 fathoms, at which depth fine

The Phoenix Bessemer Steel Company's (Limited) annual report has been issued. The directors have been compelled, in consequence of the decreased demand for Bessemer ingots, to increase the plant, in order to work the material into a finished state. The contracts taken over from the vendors have fallen 25 per cent. short of the sum of 8385L, at which they were estimated in last balance-sheet. Bringing forward the profit on last year's account of the sum of 8681L, after allowing interest on loans, bad debts, and over estimation of vendors' contract, the shareholders will have a credit balance of 9292L to deal with when they meet.

Erie Second Consolidated Mortgage Bonds were dealt in at 643,

64½, and leave off steady at 64½ to 65½.

CHEMICALS AND MINERALS—(Messrs, J. Berger Spence and Co., Manchester, Sept. 9).—Soda: Cream caustic, 60 per cent., 13⁄. 15s. to 14⁄.: white, 15⁄. 5s.: soda ash, 2½′d. to 2½′d.; soda crystals, 5⁄. 10s. to 5⁄. 15s.; bi-carbonate, 16⁄.; salt cake, 3⁄. 5s.; Glauber salts, 2⁄. 17s. 6d. to 3⁄.—Bleaching Powder: At 9⁄. 15s. to 10⁄.—Alum: 8⁄. for loose lump; ground, 9⁄.—Nirrate of 8oda: At 11s. 6d. to 12s.—Ammonia: Sulphate, white and grey, 17⁄. 10s.; carbonate, 7½′d.; muriate, 30⁄. to 35⁄.; sal ammoniac, 1sts, 45s.; 2nds, 44s.—Potash: Muriates, 80 per cent., 6⁄. 10s. to 6⁄. 12s. 6d., 1.o.b.; Prussiate, red, 2s. 6d.; yellow, 13d.; chlorate, 11d.; bi-chrome, 6⁄½d.—Iron Salts: Green and rusty copperas, 60s. to 65s.; dry copperas, 55s.—Copper Salts: Sulphate of copper, 27′.—Salt-petre: Foreign, 20s. to 22s.; refined, 26s. to 27s.—Addi: Tartaric, English, at 1s. 7½′d.; foreign, 1s. 7d.; oxalic, 7½′d.; sulphuric, 3⁄. 10s. to 3⁄. 10s.; carbolic, No. 1, 11d. to 1s.—Arsenic: 10⁄. for white powdered.—Magnesia: Epsom salts, 4⁄. 2s. 6d. to 4⁄. 5s.; refined, 4⁄. 10s.—Pitch: 32s. to 35s.—Benzole: 30 per cent., 2s. 9d.; 50 per cent., 3s. to 3s. 3d.; 90 per cent., 4s. to 4s. 6d.—Borax: Refined, 67s. 6d.—Wood Pulp: Labro moist, 5⁄. 10s. per ton at outport.—Brimstone: Best thirds, 7′. 2s. 6d.—Phosphate of Alumins, 3⁄. to 3⁄. 10s. per ton.—Pyrites: Spanish cupreous, 8½′d.; non-cupreous, 9⁄d. to 9½′d.—China-clay: 18s. f.o.b. Cornwall.—Phosphates: High strength, 80 to 85/per cent., 1s. 4d. to 1s. 5d. per unit; Estrandura, 1s. 3d.; ordinary, 40 per cent., 1s., precipitated phosphate of lime, 70 per cent., 3⁄. 10s.—Manganese: Ores, 115s. for 70 per cent.—Iron Ore: Hematite, 15s. to 22s. 6d.; puddling, 24s. to 27s.; oolitic, 8s. to 10s.

		LE	AD	OI	RE	B.		
Date.	Mines.	Tons.	. P	rice	per	tor	١.	Purchasers. Adam Eyton.
Aug.29-	-Park	20		£13	6	0		Adam Eyton.
Sept. 1-	-Rhoswyddol	20		11	18	6		Walker, Parker, and Co.
9.	-Great Laxev	100		22	0	6 .		Treffry's Estate.
10-	-Talargoch	70 .		13	15	0		Walker, Parker, and Co.
	-North Hendr	e 50		13	15	0		ditto
	- ditto	10		14	16	6 .		Adam Eyton.
	-Prince Patric	k 40 .		13	16	6		ditto
	-So. Prince Pa	trick 40 .		13	16	6		ditto
	-Foxdale	100		21	12	6		Burry Port Smelting Co.
	-Roman Grave	ls100		13	11	0		Walker, Parker, and Co.
	- ditto	25		13	11	0		Nevill, Druce, and Co.
	- ditto	25		13	11	0		Panther Lead Company.
	 ditto 	50	*******	13	14	6		George Burr.
	- ditto	30 .		13	12	6		ditto
	-Bwadrain Co	nsols 20		12	7	0		Nevill, Druce, and Co.
11-	-Old Treburge	tt 33		31	11	0		Treffry's Estate.
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Date	Mines,	Tons	e.	q.	lb.		Pric	e p	er	ton.	Am	ou	nt.	Purchas	ers
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ept.	5-Wheal Uny	. 13	2	0	24		53	0	0	***	694	17	0-	Bolitho.	
	7-Pedn-an drea	. 17	4	2	8		55	15	0	***	960	9	10-	******	
	9-Penhalls	. 7	6	2	6		55	12	6					Daubuz.	
	-Wheal Coates	. 1	17	1	25		50	12	6	141	94	17	0-	ditto	
		-						-							

COPPER ORES. Da'e. Mine. Aug. 13-Caldbeck Fells ditto Tons. c. q. lb. Price per ton. Purchaser. ... 14 8 3 0 ... £19 18 6 ... John Bibby, Sons, & Co. ... 13 3 0 0 ... 7 8 6 ... ditto

COAL MINES REGULATION ACT, 1872.

APPROACHING EXAMINATION FOR MANAGERS' CERTIFICATES OF COMPETENCY.

DISTRICT UNDER THE CHARGE OF RALPH MOORE, Esq., H.M. INSPECTOR OF MINES.

PERSONS desirous of being EXAMINED in this district for MANAGERS' CERTIFICATES OF COMPETENCY, under the above-named Act, should at once communicate with the Secretary to the Board of the above mentioned District, at the following address.

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MANAGER

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Particulars by letter. ARMAND FALLIZE, Ingénieur, à Liège (Belgium)

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M. R. F. O. NEILSON, ALGIERS, ALGERIA, gives his special attention to BUYING and SELLING MINERAL ORES, and to NEGOCIATING the PURCHASE, HIRE, or CAPITAL NECESSARY for WORKING the MINES in this COLONY. At the present moment he has hand MINES of ZINC, LEAD, IRON, COPPER, &c.

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Covered by Letters Patent of July 2nd, 1872, and recent application.

Covered by Letters Patent of July 2nd, 1872, and recent application. This machine contains a sizing apparatus (revolving screen), delivering four sizes of ore to four rows of sieves, each row concentrating according to specific gravity—the sized for furnished by the sizer. Each row contains five sieves, end to end, on which the ore is submitted to the concentrating action long enough to prevent loss of valuable parts. The machine, continuously fed, works second and third-class ore into first-class ore, of perfect cleanness, in automatic action, and simultaneously in four grades or sizes. It thoroughly separates all materials differing in special gravity. Added to a battery of stamps, this machine constitutes a complete system of ore concentration sufficient for the requirements of most Western mines, with a capacity of 12 to 15 tons per 24 hours, costing less in construction than any other contrivance in the market.

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U.S. MINERAL SURVEYOR.
Particular attention paid to Underground Surveys

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D. ERNEST MELLISS, A.M., Ph.D., MINING ENGINEER AND GEOLOGIST

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In Chancery.

In Chancery.

In Chancery.

In Chancery.

In the MATTER of the COMPANIES ACTS, 1862 and 1867, and in the MATTER of the GENERAL BRAZILIAN MINING COMPANY (LIMITED).—The CREDITORS of the ABOVE NAMED COMPANY resident within the United Kingdom of Great Britain and Ireland are REQUIRED, on or before the 30th day of September, 1874, to SEND their NAMES and ADDRESSES, and the PARTICULARS of their DEBTS or CLAIMS, and the NAMES and ADDRESSES of their SOLICITORS (if any), to the Liquidators of the said company, at their ofice, situate at 86, London Wall, in the City of London; and, if so required by nctice in writing from the said liquidators, are, by their solicitors, to COME IN and PROVE their said DEBTS or CLAIMS, at the Chambers of the Vice-Chancellor, sir RIGHARD MALINS, situate at No. 3, Stone Buildings, Lincoln's Inn, in the county of Middlesex, at such time as shall be specified in such notice, or in default thereof they will be EXCLUDED from the BENEFIT of any DISTRIBUTION made before such debts are proved. Wednesday, the 4th day of Nove aber, 1874, at Twelve o'clock at noon, at the said Chambers, is appointed for New aber, 1874, at Twelve o'clock at noon, at the said Chambers, is appointed for New aber, 1874, at Twelve o'clock at noon, at the said Chambers, is appointed for New aber, 1874, at Twelve o'clock at noon, at the said Chambers, is appointed for New ALKER, Chief Clerk.

WILKINS AND BLYTH, 10, St. Swithin's-lane, E.C. (Solicitors for the said Liquidators).

Dated this 15th day of July, 1874.

WANTED TO PURCHASE, a PYRITES MINE, capable of producing a minimum of FIVE THOUSAND TONS per annum, of 40 per cent. and upwards of SULPHUR, with or without copper. Address, "Pyrites Mine," MINING JOHNSAL Office, 26, Fleet street, B.C.

£1000.

E1000.

TO BE SOLD, to REALISE an ADVANCE, TEN £100 warrants (coupons attached) in a FOREIGN WATER WORKS in FULL OPERATION. Large dividends may be relied upon to an immediate purchaser; low price will be taken, as must be sold.

For particulars, apply to Mr. Thos. Spargo, 2, Queen's Buildings, Queen Victoria-streect, E.C.

This mine being situated in one of the best districts in Wales is likely, with the capital and energy of the parties connected with it, to plove a great success.

The FIRST GENERAL MEETING of the company will be HELD at the Free-mason's Tavern, London, on the 14th inst., at Six o'clock, P.M., in pursuance with the Articles of Association, when a full report from the manager will be provided.

A B O R A T O R Y A N D A S S A Y O F F I C E,

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For the CONVENIENCE of PARTIES having CITY ENGAGEMENTS, MR
WHITE is about to ESTABLISH EVENING CLASSES, commending at ix P.M. WHITE is at Terms on enquiry as above.

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EMERY WHEELS AND GRINDING MACHINERY.—The features of novelty in the invention of Mr. Charles Heatox, of New York, U.S., consist in a device applicable to emery wheels or grindstones, which enables them to be run safely at extraordinary high speed, and counteracts the tendency to burst from or by centrifugal force: and while it enables the emery wheel or stone to be thus run, also prevents its wearing out of truth or round: counteracts the tendency to jume or run irregularly now existing; and while it permits the wheel or stone to grind or cut the material acted upon and to wear away in so doing, it yet enables the same surface speed to be maintained until the stone or wheel is worn out. It further consists in a device by means of which drills, chisels, or other tools may be accurately ground to the shape or angle desired; and in certain automatic mechanism which allows the tool to be ground to be applied to the wheel or stone, either moving towards the work or from it, as desired. It further consists in a device or mechanical arrangement which enables large wheels or grindstones to be easily and practically operated, removed, or renswed when worn out. The device is applicable to emery grinding machinery as now made, and may be applied to emery wheels or grindstones as now made or produced.

Actices to Correspondents.

. Much inconvenience having arisen in consequence of several of the Number during the past year being out of print, we recommend that the Journal shoul be filed on receipt; it then forms an accumulating useful work of reference.

MANUFACTURE OF ORE DRESSING MACHINERY—"C. E. B." (Darlington).—You are quite correct in supposing that Mr. John Walker, of James-street, Old-street, manufacturer of ore-dressing and other mining machinery, is the same engineer as for many years carried on the same business in Cowper-street, City-road. The two places are not 100 yards apart. It is probably 15 years since we referred to a new lead stamping apparatus with diagonal bed.

a new icau stamping apparatus with diagonal bed.

BYNTHETIC DIVISION.—Permit me to inform "Mathesis," in reply to his enquiry in last week's Journal, that "The Bynthetic Division in Arithmetic," by George Suffield, M.A., was published in pamphlet form, at 1s. 6d., in 1863, by Messra-Macmillan and Co., of Cambridge. It has been said by competent judges to be a very valuable contribution to mathematical science, so that it is surprising it has not obtained more prominent notice.—A. L.: Belstone,

a very valuable contribution to mathematical science, so that it is our prizing in has not obtained more prominent notice.—A. L.: Belstone.

INDICATOR DIAGRAMS.—Is there any cheap book published explaining how to interpret indicator diagrams? I have frequently been shown diagrams in proof of the excellence of the engines from which they were taken, yet these differ so widely that to me they proved nothing. I think if engine manufacturers submittindicator diagrams to non-practical men, and do not wish to deceive the purchaser, they should give us some popular description of the method of making the comparison. When it is a question of sending machinery to the other side of the globe, the purchase cannot be left to the manager, and London boards are the comparison. When it is of the globe, the purchase can early helpless.—DIRECTOR.

nearly helpless.—DIRECTOR.

THE TWENTY-FIVE LARGEST CITIES IN THE WORLD.—A report from the Burea of Statistics, Washington, gives an account of the population of the variou countries of the world. Among other details it gives the following as the population of the 26 largest cities in the world:—London, 3,24,249: Antchan (China) 2,000,000; Paris, 1,851,792; Tschantschaw-fu, 1,000,000; Pekin, 1,300,000; Can ton, 1,000,000; New York, 942,292; Tien tsin, 900,000; Pekin, 1,300,000; Calcutta, 794,645; Tokic (Yeddo), 674,477; Philadelphia, 674,022; Bt. Petersburg, 667,963; Bombay 644,405; Moscow, 611,970, Constantinople, 600,000; Liverpool, 493,405; Rio di Janiero, 420,000.

Beach & Ford Appendix Paris Constantinople, 600,000; Liverpool, 493,405; Rio di Janiero, Appendix Paris Constantinople, 600,000; Liverpool, 493,405; Rio di Janiero, Appendix Paris Constantinople, 600,000; Liverpool, 493,405; Rio di Janiero, Appendix Paris Constantinople, 600,000; Liverpool, 493,405; Rio di Janiero, Appendix Paris Constantinople, 600,000; Liverpool, 493,405; Rio di Janiero, Appendix Paris Constantinople, 600,000; Liverpool, 493,405; Rio di Janiero, Appendix Paris Constantinople, 600,000; Liverpool, 493,405; Rio di Janiero, Appendix Paris Constantinople, 600,000; Liverpool, 493,405; Rio di Janiero, Appendix Paris Constantinople, 600,000; Liverpool, 493,405; Rio di Janiero, 420,000.

BCALE FOR ADVERTISEMENTS.—Our charge for general advertisements is—for six lines and under, 4s.; per line afterwards, 8d. Average, 12 words per line.

THE SUPPLEMENTARY SHEET.—We have received occasional complaints, and of late a good many, that the Journal is delivered by country booksellers without the Supplement. Subscribers would oblige us by demanding that the paper should be handed to them complete, as every Journal is accompanied by the Supplement when it leaves our office, and the fault of omission must rest with the country bookseller or their London agent.

Gereived, -"T. I."—"Gas"—"H. W."—"Inventor"—"W. D."—"J. S."—"C. R. —"Shareholder" (Nant-y-Glo and Blaina)—"J. M."—"Manager:" Write t Messrs. Pigott and Farrar, Barnsley—"G. N.:" Next week—"Investor."

THE MINING JOURNAL

Kailway and Commercial Gazette.

LONDON, SEPTEMBER 12, 1874.

THE IRON AND STEEL INSTITUTE.

The sixth annual gathering of members, just brought to a close has been one of the most successful and interesting yet held. That the meeting should have been at Barro'r was what might have been expected, for that place is now the largest producer of Bessemer steel in the world, besides which it can claim to have been an ironsteel in the world, besides which it can claim to have been an iron-producing d's_rict since 1710. In that year the Backbarrow fur-nace was built by the Machells, whilst in 1747 the Newland fur-nace was erected by Richard Ford, whose monument is now to be seen in the parish church of Ulverstone. A few years later the Dod-dington furnace and that at Bonaw were built by the Lathams, of dington furnace and that at Bonaw were built by the Lathams, of Broughton. All these furnaces were worked with charcoal, for coal at that time was all but unknor in the district, especially for smelting purposes, whilst the steaur-engine for blowing only superseded the old bellows at Backbarrow in 1818. In the earlier date to which we have alluded the make of pigs was only about 14 tons a-week, so far as the district was concerned, but in 1740 the entire produce of the kingdom was only about 17,300 tons. Now Lancashire turns out no less than 550,000 tons a-year, the greater part of which is sent from the Furness district. From it too, is raised the fine hematite ore, so valuable for the making of Bessemer steel, and of which \$40,958 tons were raised in 1872. Of Bessemer steel some idea of what is made may be gathered from the fact that the Barrow Hematite Company, of which the Duke of Devonshire is the chairman. tite Company, of which the Duke of DEVONSHIRE is the chairman, have now no less than 18 6-ton converters, fully one-sixth of the entire number at work in the kingdom. Mr. I. LOWTHIAN BELL, who entire number at work in the kingdom. Mr. I. Lowthian Bell, who presided with his usual ability, is second to none of our ironmasters for his knowledge of all that relates to the manufacture of iron, and is connected with works that produce upwards of 200,000 tons of pig a-year. By great perseverance he has been the leading man in economising the consumption of coal in the smelting of ironstone, so that at the present time in his own locality only from 41 to 45 cwts, of coal are now required in making a ton of iron, whereas but a few years ago the quantity was 70 cwts. Having said so much as to the preliminary business, a brief resumé of some of the proceedings may not be uninteresting. not be uninteresting.

not be uninteresting.

Not the least valuable of the papers read was that by Mr. Brogden, M.P., on the explorations for coal at Barrow. The prospects of the Rampside boring are certainly most promising, and we believe that coal will ultimately be found extending over a considerable portion of North Lancashire. The matter was at one time taken up by a number of the leading landed proprietors in the Fylde district, and less than two years ago we were present at a meeting they held at Preston, which was presided over by Lord Winmerleigh (then Colonal Wilson-Patten), when a proposal made by Mr. Young Colonel WILSON-PATTEN), when a proposal made by Mr. Young (a well-known geologist and mining engineer, of Sheffield) to bore for coal at no great distance from Preston was favourably enterfor coal at no great distance from Preston was favourably entertained. For some reason or other, however, the idea was not carried out. But the success of the Rampside boring cannot fail to lead to coal being sought for in other parts of North Lancashire. Mr. BINNEY, of Manchester (the greatest authority we have on the geology of Lancashire), rather favours the idea as to coal being found extending over a considerable portion of the northern part of the county. The paper "On the Geology of the North Lancashire and Cumberland Iron Ore Districts" was also interesting, as showing the position of the valuable ores in those counties. Mr. C. SMITH, in his paper "On the Iron Ores of Sweden," gave a better idea than is generally entertained of the hematites of that country. At the same time, we think that a good deal of information with respect to some of our ironstone districts might have been brought forward to some of our ironstone districts might have been brought forward as a valuable contribution to our existing knowledge of English ores. For instance, Northamptonshire comparatively unknown, now stands second to Cleveland alone with respect to production in England, yet one hears but little about it. Lincolnshire, too, is yearly increasing its produce, the fields of ore extending over a vast area of ground, but it appears to be almost isolated, and scarcely ever thought about or mentioned, yet with the prospect of coal being found in the county it is just probable that it will become a powerful rival to Cleveland. Although the most recently discovered of our mineral districts, it is now raising upwards of 400,000 tons of ironstone a-year, whilst one firm alone—the Messrs. Dawrs—have no less than seven furnaces at Frodingham, midway between Doncaster and Grimsby, whilst other firms have two or three each in the same locality. As might be expected, the importance of hydraulic machinery in our iron and steel works, particularly as relates to the distributing valves or cooks, was not overlooked, and a very interesting paper on the subject was read. being found in the county it is just probable that it will become a

Howed, and a very interesting paper on the subject was read.

Here again we may say that in connection with hydraulics we should have liked to have seen a paper on the present state of air-compressing machinery, a power that is now growing into very great importance, more particularly with respect to coal mining. Not only in Yorkshire, but in other parts of the kingdom, air-compressing engines are fast being adouted, and hid fair to be all but pressing engines are fast being adopted, and bid fair to be all but pressing engines are fast being adopted, and bid fair to be all but generally used in coal and ironstone mines. Machinery for economically and rapidly cutting minerals of every description, we think, might not have been left out of the programme, and it is to be hoped will receive some attention at the next meeting, as well as the new mode of re-carbonising burnt steel, and to which we recently drew attention. The latter cannot be over-estimated in value, seeing that steel, when burnt and made up, is of but little value afterwards; whilst by the new process it can be made as good as in the first instance. The remarks we have thus made are entirely suggestive, but may be the means of some of those persons who are interested in the inon districts to which we have alluded, as well as patentees of machinery, in taking part in the proceed-

ings next year.

Not the least important announcement made was that of the Not the least important announcement made wes that of the Chairman—that he proposed visiting America, for the purpose of seeing how England was to maintain its position as the great centre of the iron trade against the growing power of the United States. We need scarcely say, in wishing Mr. Bell a safe return home, that we shall look forward with no little interest to his report, in the interest of our English ironmasters as opposed to our American competitors. We may, however, assume that he will find the question of the production of iron intimately associated with the price of coal.

THE INCE HALL COLLIERY EXPLOSION.

The Coroner's enquiry as to the explosion of fire-damp which took place on July 18 last at the Saw Mill Pit of the Ince Hall Coal and Cannel Company, near Wigan, and which resulted in the deaths of fifteen persons, closed on Wednesday. On that day evidence was given by Mr. GEORGE GILROY (the managing director of the company) Mr. WILLIAM PICKARD (the miners' agent for the district), and Mr. THOMAS RELY (GOVERNMENT LEADERS (Mines). The gridence was THOMAS BELL (Government Irspector of Mines). The evidence was remarkably unanimous, and its substance was embodied in the verdict of the jury, which was to the effect that, in their opinion, the explosion had been caused through Crompton (deceased)—the shotlighter in the mine—having failed to examine one of the places; his attention had been called by the underlooker (BATEX) to the fact

that gas existed in a working place, and the evidence that this gas had been the cause of the disaster was conclusive.

Very few colliery explosion inc tests have accounted so completely for the disasters to which they rated, and to the colliery owners of the district it will come home with terrible force. CROMPTON was a man in whom the management had implicit reliance; he was entrusted with the most dangerous work in the nit—the firing of was a man in whom the management had implicit reliance; he was entrusted with the most dangerous work in the pit—the firing of shots after the majority of the workmen had ceased their day's labour; his assistants were picked men; he was, in fact, the main link in the chain which Mr. GILBOY had so carefully prepared with a view to securing the complete safety of his workmen. The mine was known to be treacherous; scores of lives had been lost in it at other collieries; working it safely was of far more importance to the company than any amount of outlay; every appliance which the managing director's experience—unsurpassed in coal mining—could devise had been brought into use; the bratticing was of iron; even the method of fixing it had been the result of patient investigation and much experiment; in case of fire the waters of the canal overhead could have been turned into the mine at a few moments notice; and, no withstanding all this, an explosion occurs, and 15 men are killed. It is enough to make the boldest and most enterprising miner shudder to think that, after every precaution, the 15 men are killed. It is enough to make the boldest and most enterprising miner shudder to think that, after every precaution, the only portion of his machinery that has intelligence, and is not supposed to act automically, is the one to break down in an emergency. The jury appended to their verdict a censure upon BATEY, the underlooker, for failing to give some information in the earlier sittings, and he was admonished by the coroner. BATEY declared, between that he had no intention to conceal anything from the

however, that he had no intention to conceal anything from the Court, and the general opinion formed from the way in which he gave his evidence was that he had been guilty of an oversight rather

than of any deliberate intention to deceive.

To the company, and especially to Mr. Gilroy, the jury were highly complimentary, expressing through their foreman the opition that neither skill nor expenditure would be spared in the work-

ing of their mines.

The enquiry itself presented a remarkable contrast to that recently held at Dukinfield—in constitution, in procedure, and in results. Not having to comply with any sensational appeal from Mr. Macdonald, the Home Secretary did not think it necessary to hamper the Court with the presence of any additional Inspectors, or of any counsel, who might have been supposed, as at Dukinfield, to be "prosecuting on behalf of the Crown." There were no magistrates "prosecuting on behalf of the Crown." There were no magistrates on the jury, nor doctors, nor clergymen, but there were plemty of men who knew how to dea! with colliery cases, and such men were scarce amongst the Dukinfield jury. The coroner (Mr. Driffield) has had so much experience in these cases that he might almost qualify for a Government Inspectorship. The Crown was efficiently represented by Mr. Bell, and Mr. Hedley, his assistant; Mr. Gilroy was his own advocate, and the interests of the relatives were watched by Mr. Pickard, to whose valuable services and experience at the time of disaster very many colliery proprietors in Lancashire have been greatly indebted.

Although this Ince Hall inquest lacked so much of the sensationalism that was thrown around Dukinfield, and although not half so much time has been wasted at Ince as was thrown away in the

tionalism that was thrown around Dukinfield, and although not half so much time has been wasted at Ince as was thrown away in the "full and searching" enquiry that took place in Cheshire, the issue is far more satisfactory, and is, certainly, one in which the public mind has the fullest confidence.

But who shall say that the next inquest may not take place before a court as hopelessly incompetent as that which sat at Dukinfield? If every colliery owner could be certain of as fair an investigation as that which has been made concerning the working of the pits of the Ince Hall Company there would be no need for change; but, unfortunately, this is one of the exceptions: in some districts inunfortunately, this is one of the exceptions; in some districts in-competent coroners and juries are the rule.

COAL MINING IN FRANCE.

Coal mining was a lucrative business among the French last year, if we may judge from the profits realised by some of the French colliery companies in and for 1873. The Montrambertand Beraudière Company extracted, for instance, last year 490,764 tons of coal from its mines, the profit obtained from sales having been 197,224l. The extraction of 1872 was 455,651 tons, yielding a profit of 126,254l. It will be seen that while the increase in the production effected last year did not exceed 8 per cent., the increase in the profit realised amounted to 55 per cent. The highly satisfactory results secured last year could not have been obtained without a notable augmentation in the selling price of the coal offered to the public; at the same time, the fact should be noticed that the cost of production also experienced an augmentation last year, in consequence of the increase of wages, the higher reles paid for various materials supplied, and the plus value of the coal consumed by the company's engines. Adding sundry accessory receipts, and deducting the charge of the company's obligation debt, the net profit available for dividend on the share capital of the company amounted to 193,371l. Coal mining was a lucrative business among the French last year for dividend on the share capital of the company amounted to 193,3711, a total presenting an augmentation of 75,8944, as compared with the corresponding balance available for 1872. Of the balance of 193,3714, 118,4004, was applied to the payment of a dividend of 11. 9s. 6d, per share, the balance being devoted to sundry reserves new works, &c.

The Rive-de-Gier Collieries Company had great difficulties to con-tend with in 1873 in consequence of injuries occasioned in 1872 to the principal pits of the Grand Croix basin, which were not completely repaired in the course of the last financial year. It is only that the extraction galleries of the company in the basin tion have regained their activity, and the company in the basin in question have regained their activity, and the company may be said to have been unable, to some extent, to satisfy the demands of industry. Nevertheless, the extraction effected by the company in 1873 amounted to 264,461 tons, or 11,575 tons more than during the preceding year. The production of coke was 62,792 tons, or 8301 tons more than during 1872. The profits realised by the company in and for 1873 were 70,049%, a total presenting an augmentation of the for 1873 were 70,049l., a total presenting an augmentation of the sum of 35,197l. as compared with 1872. As the profits realised for last year admitted of a dividend of upwards of 2l, per share, it was decread advisable to apply a portion to the profile. deemed advisable to apply a portion to the special repayment of loans; the sum devoted to this object was 6000%. Including the reliquat brought forward from 1872, the total available balance was 71,341%, and after making the special redemption of debt already indicated, devoting 14,247% to new works, &c., the council of adminitration was still enabled to divide 48,000%, upon the company's share

capital, a balance of 1456l. being ultimately carried forward to the credit of 1874.

capital, a balance of 1450% being ultimatery carried forward to the credit of 1874.

The St. Etienne Collieries Company obtained very favourable results from its working operations in 1873. The company extracted last year 598,000 tons of coal, exclusive of 42,445 tons worked by the Terrenoire Forges Company at one point of the correction. The net profits secured by the St. Etienne Company for 1873 and to 165,188%, while those of 1872 were 68,923%. The same policy of prudence was pursued by the St. Etienne Company as that which found favour with its neighbours. Thus a large sum was devoted out of profits to new works, from which the company will benefit in future, and 8433% was applied to a special repayment of the company's obligation deb. Even after making, however, these and sundry o'rer deductions, a sum of 70,400% was applicable for division upon the company's share 'pital, while a final balance of no less than 28,273% was carried forward to the credit of 1874, as the council of administration is urder the impression that the paternal council of administration is urder the impression that the paternal was not the council of administration is urder the impression that the paternal capacity and the council of administration is urder the impression that the paternal capacity and the council of administration is urder the impression that the paternal capacity and the capacity a less than 28,273*l*. was carried forward to the credit of 1874, as the council of administration is urder the impression that the page twelve months must be regarded as an exceptional year, not likely to be repeated. The excellent profits realised in 1873 induced he shareholders in the St. Etienne Company to look forward to an extension in the operations of the undertaking, and the council of atministration was authorised to acquire in the Meons district certain lands avecading same 4000L in value. lands, exceeding some 4000%, in value.

COAL-CUTTING MACHINERY COMPETITION.—The conterer of the content of the country of -The contest for the premium offered by the South Staffordshire and East Worcestership Institute of Mining Engineers was between the machines of Messa. J. Grafton Jones, R. S. Norris, and J. E. Smith; and, the latter gentleman having retired from the competition, the council decided, considering the two remaining competitors had made great expetions to produce a successful hand-machine, to divide the premium between them. Mr. Norris's machine was considered best for had coal. The proceedings at the meeting are reported in another class. coal. The proceedings at the meeting are reported in another column

Premium for Colliery Plans.—The Roseberry Ironstone Company, of Middlesborough-on-Tees, have offered through the advertising columns of the Mining Journal two premiums—100% for the best, and 25% for the second best, scheme for winning the ironstone in their Roseberry royalty, and conveying it to the North-Eastern Railway. As the intending competitors are to pay 10s, for the particulars necessary to enable them to compete, and as full working plans and sections, with specifications and estimated cost are to be sent in, whilst the highest premium would represent less than a professional man of moderate standing would charge for the work to be done, the company will, no doubt, upon proper application being made by intending competitors, vary the condition that the being made by intending competitors, vary the condition that the whole of the plans sent for competition are to become the property of the company. By this means the number of competitors would doubtless, be increased, and competent men might be inclined to send in plans.

COAL AND IRON IN THE UNITED STATES.—The Central Pacific Railroad Company is experimenting extensively with steel rails at various points between Emigrant Gap and Truckes. Some 20 miles of steel rails will be laid down this autumn across the Sierras. The Central Pacific Railroad Company has concluded a contract with the Pacific Rolling Mills Company for re-rolling 5000 tons of rails, all to be delivered in the course of 1874. The "coal area" of Texas, the Indian Territory, New Mexico, Kansas, Missouri, Nebraska, Iowa, Wyoming, Colorado, Montana, and Dakota is estimated at no less than 513,000 square miles. The anthracite coal tonnage of Pennsylvania to August 8 this year amounted to 11,314,540 tons, against 12,034,603 tons in the corresponding period of 1873, showing COAL AND IRON IN THE UNITED STATES.—The Central Pacific against 12,034,603 tons in the corresponding period of 1873, showing a decrease this year of 720,063 tons. The bituminous coal movement of Pennsylvania to August 8 this year amounted to 1,742,680 tons. against 1,882,064 tons in the corresponding period of 1873. The discovery is noted of vast coal deposits on the line of the Ione Railway, California. This discovery is expected to exert an important influence upon the future of San Francisco.

LORD PENRHYN'S QUARRIES .- We are authorised to state that categorical answers were at once given last week to the committee of the North Wales Quarrymen's Union on the three leading points submitted by them, and on which the committee, in the statement submitted by them, and on which the committee, in the statement of their last demands, declare that the whole issue hinges. The points consisted of—1. The appointment of a referee in cases of difference between the present head manager and the workmen—2. The appointment of a manager with co-ordinate authority with the present head manager, and the recommendation by the committee of the Union of a particular individual for that appointment—3. A guarantee of a fixed minimum of allowance (without any specific guarantee of work to be performed), except in those cases where the terms of the workmen themselves are agreed to The other points, which the committee had stated to be "minor points," and some of which had been already conceded, were not gone into seriatim, but all received a definite reply.

Manual of Applied Analysis.—It is gratifying to be able to announce that Prof. R. Galloway, of the Royal College of Science, Dublin, is at present busily engaged upon a "Manual of Applied Analysis," since the title and the name of the author will suffice to convince all chemists that it will be an important and valuable work. As educational treatises upon the science of chemistry Prof. Galloway's "First Step in Chemistry," "Second Step in Chemistry, &c., are unsurpassed, and his large experience as an anylyst and as a teacher both before and since he accepted the professorial chair in the Royal College of Science, must have rendered him specially competent for the useful task he has now undertaken.

UNALTERABLE ALLOY.—An alloy consisting of copper 70 to 73 per cent.; tin, 2 to 11; lead, 15 to 20; and zinc, 0.5 to 1 per cent., has been patented in France by Mr. Jacobi. It is described as possessing a yellowish red tint, and may be used for objects or at, initiation juxyallays for When repeated with patential scalarities. imitation jewellery, &c. When treated with polysulphides, chloride of antimony, chloride of arsenic, &c., this alloy becomes coated with a black platina capable of being polished.

THE CHANNEL TUNNEL.—It is now proposed that this project shall be carried out by a French and an English company, the general management being vested in a company chosen by the two boards. Towards the preliminary engineering works each company is to contribute 800,000L, of which 40,000L is definitely promised by the Northern of France; and 20,000L more is added by Rotheschild Brothers, of Paris, whose intimate relations with that railway we well known. The residue will be contributed by the Franch are well known. The residue will be contributed by the Fred members of the promoting committee. With the English compan no advance has been made over the original 30,000, subscribed in 1872, but its moistured the contribution of the contribution no advance has been made over the original 30,000. subscribed in 1872; but its moiety of the preliminary total, it is expected, will also be subscribed privately. The actual position of affairs at this time is that the projet de los has been prepared, and will be presented on the re-assembling of the French Chamber in November by M. Caillaux, now Minister of Public Works, and formerly a member of the Channel Tunnel committee. The line of the main tunnel, which is to be large enough for a double line of railway, is drawn straight from St. Margaret's Bay, South Foreland, to a point very nearly midway between Calais and Sandgate. On the English side the London, Chatham, and Dover Railway will run off between the London, Chatham, and Dover Railway will run off between the suburb Carlton and the town of Dover, whilst the South-Easter Railway will branch off from about Shakspeare Cliff, and, passing to the rear of the Heights, will cross the harbour line of the former company and join the line to the village of St. Margarets. This being parallel with the shore makes a sharp turn near that village, the alteration of the direction being there approximately a state of the direction of the direction being there approximately a line hands diagonal to the direction being the state of the direction being the state of the sta right angle. On the French side the connecting line bends diagonally to the westward, and joins by a fork the Boulogne and Calais nally to the westward, and joins by a fork the Boulogue and calculated in the longitudinal section the proposed tunnel pressults a slight fall of 1 in 2640 from the centre towards either extremity and the vertical depth of the highest point of its floor is 435 fet from Trinity high-water mark, and 200 ft. beneath the sea bottom itself. From the land levels of the existing railways the two approaches make long descents of over four miles each, with gradients

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of 1 in 80 into the tunnel ends, over two miles being under the sea, of i in 30 line whole amount of tunnelling being 30 miles. The the total of the whole amount of tunnelling being 30 miles. The scheme is approved by Sir John Hawkshaw and Mr. Brunlee, in England, and Messrs. Durioch, Bergeron, and Lavallee in France.

REPORT FROM CORNWALL.

Sept. 10.-It is really difficult for one to know what to say about Sept. 10.—1th present condition of a fairs. To the partial mining matters in the present condition of a fairs. To the partial activity of last week there has succeeded complete dulness this, and activity of look for the silvery liping of the cloud one hardly knows, where to look for the silvery liping of the cloud one hardly knows, activity of last where to look for the silvery lining of the cloud one hardly knows, where to look for the silvery lining in this as in other cases cannot be doubted. The cost of production in our tin mines is certainly a good deal less than it was, and they are, therefore, by so much the more fitted to bear up against the present cepression. But the point to be noted is the length of time they have already been, waiting and working on under depressed circums ances in hope of better things. The depression has continued so long, and hopes of a revival have been so often disappointed, that the most exemplary patience is getting tired, and asks, apparently in vain, "What is to be done?" Economise the working of the mines, and make the dressing operations more complete. Well, we have again and again pointed out how much there is to be done in this way, and how much Cornwall is behind other mining districts in these particulars. But what encouragement is there for doing it or anything while the arrangements of the sale of the produce remained as they are? An individual wall is behind other imming districts in these particulars. But what encouragement is there for doing it or anything while the arrangements of the sale of the produce remained as they are? An individual mine here and there may be able to raise tin cheaply, or to introduce economical arrangements into the working, and may be able to reap the advantage of its special skill and conditions. But as things now are it may be predicted with almost absolute certainty that if the general cost of production of black tin throughout Cornwall was to fall 10%, the standard would drop 8%. We do not blame the smelters for making all the money they can—it is their business to do so, only let there be no idea that while they are driving their own wheelbarrows they are aiding the struggling industry of Cornwall. No one outside the smelters' select circle can understand the motive of their movements. There are times when tin seems to be in demand everywhere except in Cornwall. Only the other day the standard went up 2%, and purchases were made for at least 3%, higher; then came what was called a drop of 2%—altogether unneeded if the value of the metal had really only fallen to that extent, seeing that the unofficial rates were more than that above the official, and really a drop of 5% of it meant anything. Now it is understood that purchases are again being made in advance of the quoted rates. Can anyone, under such conditions, believe in the standard at all?

The mines really must take this question up, and we hail with

The mines really must take this question up, and we hail with pleasure the greater extent to which the question occupies the minds of the adventurers. It has been well pointed out that the preparation of black tin is a manufacture of a complicated character. The mines are capable of doing 9-10ths the work of bringing orestuff into metal. The 1-10th they kindly forego for the benefit of interests in which they have no share. It is idle to talk about the difficulties of smelting. They exist only, we believe, in imagination and upon paper. To say nothing of the speculative action of the smelters, there is a very handsome profit made in the smelting process itself. Why should not the adventurers have this? A good deal is said at times about the difficulty and risk of the mines turning merchants. But with ordinary business aptitude and care we do not see that has about the amount of the mines turning merchants. But with ordinary business aptitude and care we do not see that this need prove any very great obstacle. Many mines have been forced into the position already, thanks to the action of the smelting interest. What is the difference in a speculative point of view between stocking black tin in hopes of a rise and holding over, if need be, tin metal in prospect of an advance? Precisely the same conditions and objects that would influence the one would influence the other, and when the hand-to-mouth policy of raising and seli-ing is abandoned there is no reason why the whole question should not be treated in the light and according to the rules of ordinary siness transactions.

business transactions.

What we need now is that the tin mines should assert their independence. Let them work for their own benefit, not exist like sheep simply to be shorn. These are difficulties, but none that pluck and perseverance cannot encounter.

It is to be hoped that the rise in the copper standard which took place last week may continue. Copper mining does not occupy the position in the county that it once did, but there are districts which are almost whelly the Cornelon are almost whelly the Cornelon of the work of the content o

are almost wholly dependent on its welfare—notably the Caradon and the Tavistock—and these, too, need encouragement.

REPORT FROM SCOTLAND.

Sept. 9.—The Warrant Market continued quiet on Wednesday and Thursday last, and on the latter date the price touched 79s. 3d. Since then the tone has been much firmer, and a fair business was done from 80s. up to 83s., which was the closing price on Monday aftermoon. Yesterday there was a large business done betwixt 83s. 6d. noon. Yesterday there was a large business done betwix: 508. 6d., and 848. 6d., from which point a smart reaction took place to 82s. 9d., closing with buyers offering that price. To-day 83s. 9d. and 84s. 6ash were paid; at the close there were buyers at 83s. 9d., and selected the second one questions for makers' iron:—

Coltness ditto	ditto	107	6	. 85	0	
Summerlee ditto	ditto	100		. 82	0	
Carnbroe ditto	ditto	92		. 81	0	
Monkland ditto	ditto	90		. 80	0	
Clyde ditto	ditto	90		. 80		
Govan, at Broomielaw	ditto	87		. 78	0	
Langloan, at Port Dundas	ditto	107		. 83	0	
Calder ditto	ditto	111	0		6	
Glengarnock, at Ardrossan	ditto	97	0		6	
Eglinton ditto	ditto	87	6		0	
Dalmellington ditto	ditto	87		. 76	0	
Carron, at Grangemouth, s	elected, ditto	100	0			
Shotts, at Leith	ditto	102		. 85	0	
Kinneil, at Boness	ditto	90	0			
Bar iron		£1	0 0	. 00	-	
Nail rods	**********		0 0	_		
	SHIPMENTS.					
Week ending Sept. 6, 1873	***************		Tons	10.6	29	
Week ending Sept. 5, 1874	*****************		***** *****	9,4	83	
Total decrease				1.1	40	
				151.5	22	
auports of Middlesborough pic	t-iron into Gra	ngemouth		-		
				2.7	50	
For the week ending Sept.	6, 1873			2,1	90	
					_	
Total Increase	***************	**********		54	80	
Total increase for 1974				-	20	

The rise in pig-iron during the last few days is not difficult to account for, when the stocks in store are being weekly reduced till they have reached the low minimum of about 19,000 tons. It is true, that we have now 112 furnaces in blast, and that the make is being increased; but it should also be borne in mind that for a time sorie brands were out of the market, so that makers themselves were destitute of supplies, which will take some little time to replace. in the same neighbourhoot nees expectations will not be far wrong, as the capital of the market, so that makers themselves make destitute of supplies, which will take some little time to reade. However, we do not look for much higher prices, even with the considerations in view, but the considerations in view, in the present state of trade, unless the male shall work the same negroon and the purchase of the season; and the shall work the male shall work the same negroon and the shall work the male shall work the male shall work the male shall work the male shall work the same negroon and the shall work the same shall be same to shall be shall but the demand for home purposes is no way improved. The high pices demanded for new ships all the year till about the middle of last month restricted engagements, but we understand that the more farourable rates at which ison can now be supplied is encouraging been made in quotations for bars, which are being held more firmly. In machinery a good business is doing for shipment, the Customs returns giving, in nine items, the value of the week's shipments at 12,702. Two local firms have divided the contract for pipes for bundee (we formerly noticed) between them—the amount for the whole pipeage being 28,034.

The liquidators of the Black in the first transfer of the pipeage being 28,034.

announced a dividend of 5s. in 1/.; and we hear that the works will likely be sold, if not in one lot, piecemeal. It has just been announced that Thomas Wingate retired from the

It has just been announced that Thomas Wingate retired from the co-partnery of Thomas Wingate and Company, shipbulders, engineers, and ironfounders, Whiteinch, Glasgow, on December 31, 1873; and that the business iscontinued under the same firm as formerly.

This has been an exceedingly heavy week in coal shipments, the amount being 60,748 tons, again 39,844 tons in the corresponding week of last year. Fully the half of the whole amount was entered for Glasgow and Troon, it see together making 30,500 tons. Their destinations are chiefly Canadian and Baltic ports, the great object being to get them forward before the frost sets in. These large exports have been made at about half the cost charged last year, and are regarded as barely remunerative. The home trade is very dull, and prices are about 6d, easier. Some of the ironmasters are offering good household coal at rates under the sale coalmasters, with the view of compelling them to reduce the wages of their colliers ing good household coal at rates under the sale coalmasters, with the view of compelling them to reduce the wages of their colliers to nearer their own level. Ironmasters' colliers are getting from 4s. 6d. to 5s., while coalmaster's colliers have 5s, to 6s. a-day. The miners are working with a grudg"—a few are on strike—but where binging is not resorted to not more then the an idle day per week. In Fife and Clackmannanshire the lock-out is complete, the pits all idle, and no prospect of a seltlement. A meeting of delegates representing 40,000 miners was held here on Monday last—reporters were excluded. Mr. Alexander Macdonald was present, and addressed the meeting. The desirability of healing the breaches that had been made in the ranks by rece at dissensions and of establishing a new Union were, we believe, the subjects under discussions, but no definite resolution was arrived at.

The quantity of gunpowder shipped last month from the Clyde—foreign—amounted to 100,000 lbs., which is a decrease; the decrease for the eight months being no less than 145,000 lbs.

There has been more firmness and sleadiness with slightly improved prices for mine and metal shares, an advance being marked for Pyrites, Huntington Copper, Glasgow Caradon, Marbella, Merry and Curingheme Rept Weshington &c.

for Pyrites, Huntington Copper, Glasgow Caradon, Marbella, Merry and Cuninghame, Port Washington, &c. Tharsis new shares and Young's Paraffin offered at present rates; while Emma shares are flat at declining prices. Omoa and Monkland iron and coal shares are states that both for an advance. at declining prices. Omoa rather held for an advance.

THE SCOTCH MINING SHARE MARKET-WEEKLY REPORT AND LIST OF PRICES.

Since my last report a fair amount of business has been done in this market, compared with what has been doing for some time past, but the movements in prices have been variable, though, perhaps, the general tendency has been upwards. It is likely that business will get brisker as prices improve, as it now seems probable that no great amount of shares will change hands until prices are a good deal higher, at least, many investors who are into concerns considered to have any chance at all of getting out of the present depression declare their decision to hold on until prices go up again, and they can sell out with a profit, or, at least, a much smaller loss than would be incurred in many cases at present, and as it is well enough known that when the market becomes brisk the bad on unlong with the good we may now look for a gradual (perhaps

eerns considered to have any chance at all of getting out of the present depression declare their decision to hold on until prices go up again, and they can sell out with a profit, or, at least, a much smaller loss than would be incurred in many cases at present, and as it is well enough known that when the market becomes brisk the bad go up along with the good we many now look for a gradual (perhaps very gradual) improvement in prices, owing to this general determination to hold on. The pig-iron and coal markets both show a rise for the 'week, the former being especially strong. Copper steady, and rather dearer. Lead and tin also firm. Fife Coal shares are flat. A very heavy rise may be pointed out in Nant-y-Glo and Blaina Preferred from 42½ last week to 53 to-day. In copper shares, Canadian Pyrites and Yorke Peninsula show large advances, the latter especially, and close steady after some fluctuation, the demand for them keeping good. Oil shares have recovered much of last week's depression, although they are again looking weak. In Americans the only description dealt in has been Emmas, and they are slightly lower. To-day the market appears dull, and the forenoon's prices are—Emma, 38s.: Huntington, flat at 57s.; Marbella, 5½; Merry and Cuninghame, 67s. 6d.; and Tharisis, 25 to 25g. A detailed list of the several days' business follows.

On Thursday last, as mentioned at the close of my last week's report, the market was steady, and in some cases higher; a good business was done. Cunadian Copper Pyrices opened flat, declining to56s, buvers, a rully, however, took place, and they cosed 5ss. to 58s., to 18s. 6d. per share higher than 3% to 3%. Cosing and they cosed 5ss. to 58s., to 18s. 6d. per share higher than 3% to 3%. Cosing and they cosed on the same than the strong and they coved to strong the share done at 5%. Glosing 25t to 18s. per share higher than 18s. to 18s. pe

Engineering, 27½ to 28½; Scottish Wagon Company done at 12½; and Scottish-Australian Mine shares steady; Yorke Peninsulas, 7 18ths to 9-18ths.

On Tresday the market was more animated, though prices were in some instances lower. Benhar done at 14½ and 14½. Bolekow Vaughan "A" shares at 57½ and 57½ closing 57 to 57½. The Five per Cent. Preference Shares of this company were also done at par (20½) ex div. Canadian Copper Pyrites again good, done at 63s. 6d., 63s. 6d., and 65s., closing 64s. to 64s. 6d. These shares are very lively, always moving one way or another; they show a rise of 9s. for this week. Emma shares done at 38s., closing slightly better at 37s. 6d. to 38s. 6d. Fife Coal Company offered at 5½, being ½ lower. Huntington good, buyers at 58s., with few sellers at 69s. Marabella shures done at 5½, closing 55 leths to 5½. In Merry and Caninghame a large business was done from 67s. to 68s., closing about 67s. 6d. Monkland ordinary done at 79s. and 89s., closing so. Middrie Coal done at 41s. Omoa and Cleland firmer, done at 64s., closing 64s. to 65s. Thursis lower, done at 25½, 25 b.16, and 25½, closing sellers at 25½, huyers at 25½. Now Shares steady, at 17½ to 17½. Young's Paraffine, 5½ to 5½. London and Glasgow Engineering, 27 to 28. Yorke Peninsula shares declined on some sales, being done as low as 3s. 9d, but closed better again at ½ to ½. There was no reason for this fall—quite the opposite; and the shares will doubtless soon regain the former quotation, if not go higher. The last day for this account has been changed from Saturday, the 12th inst., to Friday, the 11th inst., Saturday being a holiday; the first day for the new account (settlement end of month) will, therefore, begin on Monday.

On Wednesday a fair amount of husiness was done : the movements.

quotation, if not go higher. The last day for this account has been changed from Saturday, the 12th inst., to Friday, the 11th inst., Saturday being a holiday: the first day for the new account (settlement end of month) will, therefore, begin on Monday.

On Wednesday a fair amount of business was done; the movements in prices, however, were very variable. Benhar, 14 to 14½. Bolckow Vaughan, A, unchanged, at 57½. Canadian Copper Pyries done at 62s. 64. to 67s., closing at 63s. to 63s. 64. Glasgow Caradon done at 26s. 64., closing at 26s. to 27s. Huntington at 59s. 64. and 59s., closing at 57s. 64 to 59s. 64. Marbella again good, done at 594, 7-16ths, and ½, closing at 57.16ths to 5½. Merry and Cuninghame done at yesterday's prices, but closing rather better at 67s. 64. to 63s. Niddrie coal done at 49s., closing at 35s. to 40s. Shotts weak, offered at 73, buyers at 70. The annual general meeting of the shareholders of this company was held in Edinburgh at the company's offices to day, Mr. William Handyside, the chairman, presiding. The report, which was unanimously agreed to, stated that the net balance of profit for the year ending June 30, 1874, after making allowance for exhausted or detricated plant, was 17,5164. which, with balance from last year, 78734. made 25,3832. available for distribution, out of which the directors recommended, after payment of a dividend of 5 per cent. on the ordinary stock and share capital of the company, payable free of income tax on Oct. 1, 1874. This absorbs 24,933%, leaving only the small sum of 45%, to be carried forward. The irregular working of the miners had involved much loss by restricting the output of minerals and production of pig iron. Good progress has been made in the development of existing mineral fields, for which, however, the expenditure on machinery, plant, and pistiking has been very heavy, necessitating an increase on the mortgage debt on 10,000%, and of 60%. on the share capital, by the issue of 165 new ordinary shares; and it is stated that a continuance o

	W 411	De to	unu	the latest quotations.	
Amoun		Amon	nt	COAL, IRON, STEEL.	Latest
of share	e.	paid r		Name.	price.
£10		4		Arniston Coal (Limited)	4
10	***	10	***	Benhar Coal (Limited)	141/
100	***	35	***	Bolckow, Vaughan, and Co. (Limited)	5734
10		- 5		Cairntable Gas Coal (Limited)	51/9
10		10	***	Chillington Iron (Limited)	654
32		29	***	Ebbw Vale Steel, Iron, and Coal (Limited)	23
10		3	***	Fife Coal (Limited)	534
10		6	***	Glasgow Port Washington Iron and Coal (Limited).	428.
10		10		Ditto All paid	514
10		10		Lochore and Capledrae (Limited)	77/
10		10		Marbella Iron Ore (Limited)	51/2
10				Merry and Cuninghame (Limited)	67s. 6d
10		10		Ditto All paid	814
10		10		Manhand Inem and Carl (Timited)	
	4.0.0	10	***	Ditto 7 per cent. Guaranteed Preference.	8
10			***		53
100	***	100		Nant y-Glo and Blaina Ironworks pref. (Limited)	
10		2		Niddrie Coal (Limited)	40s.
10		4		Omoa and Cleland Iron and Coal (Limited)	64s.
50		50	***		73
10		4		Ditto New, issued at 21/2 premium	614
				COPPER, LEAD, SULPHUR, TIN.	
10		7		Canadian Copper Pyrites (Limited)	63s.
10		10		Ditto All paid	614
		7		Cape Copper (Limited)	2734
10			***	Darke Walls Tip and Copper	5
5	***	- 5		Drake Walls Tin and Copper	15s.
2		2	***	Dunsley Wheat Phenix Tin (Limited)	
-		25		East Black Craig Lead (Limited)	25
1		1			208. 00
1		158.	090	Ditto New	18s.
10		8	***	Huntington Copper and Sulphur (Limited)	57a.
-		1	***	Islay Lead (Limited)	1
25s.		234.		Kapunda Copper (Limited)	58.
4		4			25s.
10		8		Rio Tinto (Limited)	65%
10		10	***	Russian Copper Mining (Limited)	45a.
	0.0	1	***	Scottish Australian Mining (Limited)	136
1		58.		Ditto Now	34
1	400		***	Ditto New	251/4
10		10		Ditto Non	175/
10		7	***	Ditto New	1754
1	***	1		Yorke Peninsula Mining (Limited)	8s.
1		_		Ditto 15 per cent, Guaranteed Preference	28. pm
				GOLD, SILVER.	
1		1		Australasian Gold Mines Investment (Limited)	1
20		20		Emma Silver Mining (Limited)	38.

10	***	10		Fugstan Silver Mining (Dimited)	314
5	***	Б	0.00	Last Chance Silver Mining (Limited)	173
				OIL.	
10		199		Dalmeny Oil (Limited)	576
10		7	***	Midlothian Mineral Oil (Limited)	314
.5	***	5		Taball Mineral Oil (Limited)	0/3
10		- 8		Uphall Mineral Oil (Limited)	****
10			/3	Young's Paraffin Light and Mineral Oil (Limited)	534
				MISCELLANEOUS.	
10		10		Dumfries Peat Fuel (Limited)	10
10		10	1.00		10
10		10	***	Highland Peat Fuel (Limited)	28
50		25			
20			1/2	Peruvian Nitrate (Limited)	.4
10		10		Railway Access	14
10		10		Ditto Preference, 1875, Redeemable	934
10		10	***	Scottish Wagon Company (Limited)	121/
1		1	***	Ditto New	21s.
20		20		United States Rolling Stock	14
				for this account Sept. 11; settling day, Sept. 16.	

ascertained, Scotch companies only being inserted, or those in which Scotch in vestors are interested. In the event of any being omitted, and parties desiring quotation for them and such information as can be ascertained from time to time to be inserted in this list, they will be good enough to communicate the name of the company with any other particulars as full as possible.

J. Grant Maclean, Stock and Share Broker.

Post Office Buildings, Stirling, Sept. 10.

THE SHOTTS IRON COMPANY.

shareholders was held on Wednesday at The annual meeting of shareholders was held on their office, Prince's-street, Edinburgh,
Mr. Handyside (Chairman) presiding.

that had been placed in the way of the company through strikes and other disadvantages. During the past year the directors had had a great deal of anxiety in the carrying on of the works, but he trusted that they were now entering on a more prosperoas course. He concluded by proposing a dividend on the preference shares of 5 per cent., and a dividend at the rate of 10 per cent.—Dr. MILLER wished to know the state of the Cumberland Works, and as to the success in the boring for hematile.—The CHAIRMAN said that they had got some ore on the surface, but they had not yet got permanent machinery for the working of it. They had got down about 36 fms. without being troubled with the water.—Mr. G. S. Anderson (Glasgow) seconded the adoption of the report. He said that they had got the works in a first-rate condition, and he thought they might now hope for a season of prosperity.—The report was unanimously agreed to.—In reply to a question by a shareholder as to the foundry, which he thought produced too small a profit, Mr. Ormiston said that during the past year a large proportion of the foundry eastings had been for the use of the works.—The CHAIRMAN said that the attention of the directors had been drawn to the foundry, and they would see that, as far as possible, it would yield a profit.

REPORT FROM THE FOREST OF DEAN.

Sept. 10.-Some changes have occurred in the district since our last report, some of an adverse character, whilst others have been of an encouraging nature. We referred in our last report to certain last report, some of an adverse character, whilst others have been of an encouraging nature. We referred in our last report to certain small coal works on the western side of the Forest, where disputes had arisen between the employers and the workmen affecting between 200 and 300 men. The proprietors stopped the works, as was understood, on the ground that they did not pay, although it is reported that no reasons were assigned on the notice papers stuck up at the pits, but simply that at such a date the work would cease and the men would be out. Tuft Level and Speculation Collieries were included in the number, we believe, besides one or two others. The work ceased accordingly, and the men brought out their tools, but subsequently enquired whether they could resume work, but were informed that they could not do so unless they submitted to considerable reductions, which the men allege would be equal to 9s. a week off the men's wages, and 5s. a week off the boy's wages. The men, therefore, complain of such an unusual course of stopping works before assigning the reasons, as they have no chance under such circumstances of trying to come to an understanding ere the time expires, and, if successful, preventing loss of time and wages, which to working men is of grave consideration. This complaint appears to be founded on justice and reason, as workmen have an appears to be founded on justice and reason, as workmen have an undoubted right to look to their employers for fair play. Several attempts have been made to arrange matters, which, as the masters stood out, ended in a temporary strike, which, excepting one pit, has now been settled, and the men are at work. A meeting was held between the representatives of the men, the agent, and the manager at Windows pit but ended without being enabled to come to ager, at Wimbury pit, but ended without being enabled to come to nager, at winners pit, but sinder without being emission to the terms, and so the men of that place are now on strike, and the Union will pay them a week's wage on Saturday next. It is to be Union will pay them a week's wage on Saturday next. It is to be hoped, however, that some reasonable bases for agreement, and an amicable settlement will be found, so as to put an end to the strike, for strikes are certainly undesirable things. The miners' agent has this week published a letter, in which, alluding to one of the pits and its disagreements, he says that if the proprietor has made a bad bargain in purchasing the property the men could not help that, and having only their labour to sell, they had a right to make as much of that as ever the markets would allow.

The local coal trade has improved, at least at several of the pits, and hence employment is more in request. An additional furnace,

and hence employment is more in request. An additional furnace, too, has been put in blast, and hence work at that place is looking up. We are happy to report improvement in the iron trade, as within the last few days some 800 tons have been cleared out. This improvement we would hope, after such a long dull period, be looked

improvement we would hope, after such a long dull period, be looked upon as likely to be lasting.

The Littledean Woodside Coal Company (Limited) has now completed its branch line, by which their works are connected by rail with the Great Western system, forming a junction with the Whimsey branch, near the Dam. The company's property includes the Paragon, Addis, and Haywood Pits, and flourishing brickworks on Bilson Green, adjacent to the Paragon Pit, their system of rail now connecting all their works. The company is doing a large brick trade, and to meet the increasing demand for the article an additional kiln is now in course of construction. By the courtesy of the manager (Mr. J. M. Johns) we rode over the line on the engine this morning, and can testify, from observation, that the line and works speak well for the engineering skill and management which have directed the operations to a successful issue. As we have already directed the operations to a successful issue. As we have already remarked, the rails connect the three pits. Addis Pit, in the wood, and Haywood Pit, between the town and Haywood, are nearly in a line with each other on the hill side, a little above the vale. In connection with these pits there are two machine-houses, one to weigh for the country trade, down by the side of the turnpike-roud, at the bettern of the town and one a little within the wood to weigh for for the country trade, down by the side of the turnpike-roud, at the bottom of the town, and one a little within the wood, to weigh for sending off by rail. The line has all necessary appliances of sidings, empty runs, and rails for full carts, so as to facilitate turning, shunting, and running out. Including these accommodations, sidings and runs, the rails would, if laid in a direct line, occupy a distance of about two miles, but the direct distance across from the pit to the Whinsey is considerably less than that, the line having to be cut circuitously, the nature of the locality rendering looping and curvatures requisite to adjust the gradients. The rails ensure a remarkably easy run of the engine and carts, the work being apparently well accomplished. At the Haywood Pit end, near the turnpike markably easy run of the engine and carts, the work being apparently well accomplished. At the Haywood Pit end, near the turnpike, there are screens erected for tipping the coal through, the lime, or furnace coal, however, being much of it sent off without, the company supplying a considerable number of the ovens in the neighbourhood from their pits. The tip (with screen) for supplying the railway trucks for distant trade is erected in Holly Hill Wood, by which means the force of strong winds is much backen as a decay. which means the force of strong winds is much broken, an advan-tage for the workmen of considerable importance in chilly or cold weather. The coal trains run from the pits, by a level crossing over the turnpike-road, down to this tip, and the trucks, when filled, are sent off, via Whimsey branch, to the main line, and on to their des-tination. The two engines at Haywood Pit wore most satisfactorily, and altogether the works and their management reflect the highest credit upon those concerned in their direction. The company has been, even in its incipient stages, quite a success, paying all along, we believe, 10 per cent. upon its expended capital, so that now its distant trade obstructions are removed by securing the necessary outlet. By the construction of its connecting branch of railway it may

REPORT FROM DERBYSHIRE AND YORKSHIRE.

egitimately expected that a great impetus to its prosperity will

Sept. 10.-The trade of Derbyshire has undergone no change since our last notice, with the exception that in one of our colliery dis-tricts some complication is likely to arise. So far as pig-iron is conca is of a full average character, and the same may be said with regard to the manufactured material. The foundries at Staveley, as well as those on the Erewash Valley line of railway, are now very well employed, and there has been no falling off with respect to the out-put of Bessemer steel and rails at the works adjoining the Dronfield Railway siding of the Midland Company. In the same locality the collieries are doing a very fair business to the the same locality the colleries are doing a very later obsness to the South, and the men are now working very steadily. Near to Alfreton it is understood that notices have been given to the miners at the Tibshelf, Wingfield, and Shirland collieries that they will be required to submit to a reduction of 10 per cent. in their wages. The last-named colliery was purchased some time since by the South Yorkshire Miners' Association, but the transfer has not yet been completed. The proposal is being strenuously opposed by the men, and there is every appearance of another stirring time in South Derbyshire.

In Sheffield the trade is very much as it has been for some time past, the Bessemer establishments being those that are the best employed, there having been no falling off in the demand for rails.

There is, however, not so much doing in tires, axles, and other forgings. In cast-steel there is no alteration, so that the workmen are not fully employed. At the extensive malleable works of Crowley and Sons, at Kelham, now the largest known, there is considerable activity in most fine castings, for which the firm has a world-wide reputation. The coal trade is rather better than it has been, and more is being sent from South Yorkshire to Hull and Grimsby for shipment to the North of Europe than for some time past.

everal collieries, however, differences have arisen that are likely to militate against the interest of both masters and men. At the Bloom House Colliery, Darton, belonging to Mr. Lodge, the men have been out for a week, in consequence of the top men refusing to submit to a reduction of wages. At the Oaks Colliery, Barnsley, there is a good deal of agitation, and the men have held several meetings during the week respecting the wages question. The men state that in July last an agreement was entered into between them and the menerger that they should work at a reduction of 10 per and the manager that they should work at a reduction of 10 per cent, on the then wages for three months. The men now say the company desire them to accept the 2½ per cent reduction, as agreed

company desire them to accept the 2½ per cent. reduction, as agreed upon by the arbitrators.

THE COAL TRAFFIC BY RAILWAY TO LONDON FROM YORKSHIRE AND DERBYSHIRE.—There has been a marked decline in the consumption of coal in the metropolis during the whole of the present year, a fact in a great measured due to the high prices of last year, which led to various methods being adopted for economising suel. Taking August last, we find that the quantity of coal sent by railway was considerably less than for the same period of 1812 or 1813. The strike in South Yorkshire seriously affected the traffic by the Great Northern, during the last month in particular, and in consequence for the first time since coal was conveyed to Loudon by railway that line has fallen to the fourth place amongst the lines taking coal direct to the metropolis. The Great Western, also for the first time, taking its position. The loss of revenue to the Great Northern last month, as compared with the corresponding one of 1813, will be fully 70.91. It may be said that the recent disputes at the collieries of Earl Fitzwilliam and the Strafford Main Company aided consider bly to the falling off in the Great Northern trafford, from them last month, when the plus were entirely closed. The Manchester, Sherfield, and Lincolnshire Company also suffered very much, it being the main feeder of the Great Northern, the loss having been on the freight of from 20,003 to 25,000 tons a-week. A little more coal is being sent from South Yorkshire over the London and North-Western, ria Penistone and Guide Bridge, than during the previous month, so that the line has well maintained its position. The Midland has not done so well, but it will heats the list of railways carrying coals to London. The London. The Indicated the coal carried by all the railways to London during the month of August 1873.

Aug	August 1873,		
MidlandTons	127,564	Tous	120,754
London and North-Western	7 ,735	***************************************	76,769
Great Northern	77,381	***************************************	56,219
Great Western	59,807	***************************************	61,139
Great Eastern		**********	
Other lines	2,215	***************************************	3,389

	1873.		1874.	
MidlandTons	1,065,908	Tons	1,007,804	
London and North-Western	664,969	*****************	623,522	
Great Northern	649,180	*******************	523,143	
Great Eastern	442,928	***	403,386	
Great Western	434,511	***************************************	380,463	
London and South-Western	21,835	***************************************	18,648	
Other lines	9,844	***************************************	1,278	

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

Sept. 11.-The Pig-Iron Trade of South Staffordshire is, on the whole, a degree steadier; but the improvement is not so great as might be inferred from the number of additional furnaces which are being put into operation. The desire to distribute more widely the "dead" charges, together with the belief that a declared reduction in the price of coal is imminent, are the reasons assigned feather a high time of features and it is critically invested and for the re-lighting of furnaces; and it is quite obvious that such a course is not warranted by any actual improvement in the demand, but common cinder pig is selling at 3t. to 3t. 5s., and all-mine at 5t. 10s. to 5t. 15s. per ton. Cold-blast iron for foundry purposes is in very actively-sustained demand. In the finished iron branch the demand shows a tendency to improve, and there is every reason to believe that a brisk trade would be forthcoming, but for the resultance of the procedure with the dependency of our tendency in prices will be dependence of our region. prevalent idea that a reduction in prices will be declared on Quarter Day. That there is good reason for such an idea is confirmed by the fact that the Coalmasters' Association has arranged to hold a meeting in Dudley to-morrow (Friday) to discuss the question of prices. It is believed that a substantial reduction will be declared, prices. It is believed that a substantial reduction will be declared, accompanied by a notice to the miners of a further drop in the rate of wages. Pending the result of this meeting, the business of the week in finished iron has been of a restricted nature, and it is unlikely that any orders of importance, other than those of an urgent nature, will now be given out before quarter-day. Sheets and plates command a steady enquiry, and there is rather more doing than last reported in hoops, rods, and gas strip. Quotations are without change. At the foundries and fitting-shops throughout the district there is a fairly satisfactory business doing in the principal classes of production. cipal classes of production

The Darlaston Steel and Iron Company's large and important industrial concern, which since the death of Mr. Samuel Mills, of Darlaston (by whom it was carried on with marked success for many years), has been in the hands of a private joint-stock company, is about to undergo considerable development. The mineral area of the company's property comprises 200 acres of freehold coal and ironatone deposits at Darlaston, Bescot, and Horseley, and 693 acres of leasehold coal at Essington, in the Cannock Chase district. The average yield from these mines is at present 3000 to 4000 tons of average yield from these mines is at present 3000 to 4000 tons of coal and ironstone weekly. This out-put it is intended to augment until it reaches an average of 300,000 tons per annum. The completion of a private railway, which will connect the collieries at Essington with the London and North-Western line, also forms a part of the proposed scheme. Both the coal and stone are of excellent quality, and command a ready sale in the local market. The blast-furnaces of the company are three in number, and produce 20,000 tons of pig-iron per annum. The mills, forges, steelworks, and fitting shops at Darlaston Green and King's Hill are on a very complete and ample scale, and are capable of producing an annual complete and ample scale, and are capable of producing an annual yield of 25,000 tons of iron and steel. The area covered by the ironworks is 72 acres in extent. In order to accomplish the contemplated extensions and developments it has been decided by the directors to issue mortgage debenture bonds, bearing 7 per cent. interest, to the extent of 150,000l., on security of works and mineral area valued at 300,000/., and which is subject only to a prior charge of 32,628/. Only 40,000/. of these debenture bonds will be offered for public subscription, the remainder having been taken up by the directors and other shareholders. In addition to the security offered in the properties specified, royalties on the coal and ironstone raised, at the rate of 8d. per ton for the freehold and 4d. per ton for the leasehold, will be payable and vested in trustees for the redemption of the bonds by annual drawings at 2½ per cent. The whole of the bonds are terminable in 1889.

In North Staffordshire the improvement recently noted in the Iron Trade is fairly well sustained, bars having especially improved in demand. More is doing in merchant iron on Russian account, but the business in this direction does not present an ordinary season average. Owing to the heavy stock on hand the improvement in pig-iron is slow. Coal ranges from 9s. 6d. to 10s. 6d. for manufac-

pig-iron is slow. Coal ranges from 9s. 6d. to 10s. 6d. for manufacturing and 12s. 6d. to 15s. 6d. for household purposes.

Quotations for local stocks and shares on the Birmingham Exchange to-day include the following:—Sandwell Park Colliery (10l. shares), 70 sellers; Cannock and Huntington Colliery (Limited), par; Pelsall Coal and Iron (Limited), 3 dis, buyers; John Bagnall and Sons (Limited), 7\frac{1}{3}; Chillington Iron, 5\frac{3}{4}; and Patent Shaft and Arla 5 prem.

hardware in South Staffordshire commands somewhat steadier enquiry than recently reported, the demand having especially improved for mill and forge machinery, girders, boilers, tanks, and horizontal engines. Gas and water mains are also in request, At and the slight concession recently made in the price of heavy chains and anchors has brought out some tolerable orders for those class

and anchors has brought out some tolerade orders for those classes of production.

The Birmingham Daily Post says that the opinion expressed on the 'Change by Staffordshire ironmasters, who as members of the Iron and Steel Institute were present when Mr. Crampton particularised his furnace, vary as to its qualifications. There seem, however, to be very little division of opinion as to the probability of a method of steel making being adopted which shall be much less expensive and cumbrous than the Bessemer, whose wide application is retarded, not alone by the expensiveness of the plant, but likewise by the heavy prices to be paid for the rich ores requisite to produce ray not alone by the expensiveness of the plant, but likewise by the heavy prices to be paid for the rich ores requisite to produce ray iron. Views of men who believe in the practicability of making good steel from lean ores are strengthened by the information to hand from the States. It is learnt that Mr. John Leighton, who have the learnt that Mr. John Leighton had the learnt that Mr. John went out from the States. It is learnt that Mr. John Leighton, who went out from this country to New Jersey 12 months ago, has at a furnace there so succeeded in perfecting his method of steel making that he can can turn out a metal in any quantity 40 per cent. cheaper than English steel of a similar quality. It is added that Mr. Leighton is "able, by different heatings, under the same process to manufacture the finest and most costly, as well as the puddled steel and all intermediate grades." Simultaneously there comes information of the successful working at the mill and forge of Messrs, Petin and Gaudet, at St. Chamond, of a furnace which is the invention of Mr. Pernot, engineer and manager of the establishment. The furnace is exciting much interest just now throughout the Belgian iron trade, as it is thought likely to solve the problem of mechanic of air. Fernot, engined and analysis now throughout the Belgian iron trade, as it is thought likely to solve the problem of mechanical puddling more satisfactorily than by any other method. Specimens of the furnace are expected to be put up shortly at Liege. French ironmasters and American engineers have carefully examined it at work. The furnace is employed both in the puddling and also in the open hearth process. One ton of pig-iron is charged, and it takes about two hours to make a heat. There are two doors to the furnace, both on the same side, and the only hard work the men have is in balling. The furnace is described as running easily with engines of about the same power as those used for the Danks furnaces. The quantity of coal used is 1860 lbs. per ton of iron, and 100 lbs. of African ore per ton for flux; 12 bars are made from one charge. The open-hearth furnaces at work number three, and they make five heats of $4\frac{1}{2}$ tons per day. Out of a furnace which Messr, Petin and Gaudet are now building, and that will have a dish 9 feet in diameter, they hope to get four heats of 10 tons each. For stelling the same problems of the problems of it is believed that this furnace will take precedence of any before

THE COAL-CUTTING MACHINE COMPETITION.

The monthly meeting of members of the South Staffordshire and The monthly meeting of members of the South Staffordshire and East Worcestershire Institute of Mining Engineers was held, on Monday, in the Geological Museum, Dudley,—Mr. John Hughes presiding. There were about thirty persons present, including Mr. Lindop, Mr. W. Spruce, Mr. W. Blakemore, Mr. Newey, Mr. Cole, Mr. J. Tomson, &c. The following gentlemen were elected ordinary members—Mr. J. B. Bissell, ironmaster, Great Barr; Mr. Charles Hatton, ironmaster, Wolverhampton; Mr. Jacob Forrest, Mold; Mr. J. G. Addenbrooke, coal and iron master, Darlaston; Mr. W. B. Collis, mining engineer, Stourbridge: and Mr. Samuel Griffiths, Editor of the Iron Trade Exchange, was elected an honorary member. Mr. Joseph Millard, coalmaster, Aldridge, was nominated as an ordinary member. an ordinary member.

an ordinary member.

MR. HENRY JOHNSON, jun. (the secretary) read the report of the last Council meeting, which contained the following award:

AWARD.—The contest was between the machines of Mr. Grafton Jones, Mr. R. S. Norris, and Mr. J. E. Smith. The decision of the Council is that neither of the machines fulfilled the conditions of the premium offered by the Institute. Mr. Smith having retired from the contest the Council decide, considering the two receives. from the contest, the Council decide, considering the two remaining competitors had made great exertions to produce a successful hand-machine, to divide the premium between Mr. Gafton Jones and Mr. R. S. Norris, and in doing so the Council express their thanks to each inventor, also their opinion that the machines passess the elements of success, and will only require a little more time and attention on the part of the inventors to produce an efficient and attention on the part of the inventors to produce an efficient

Mr. HUGHES said the Leeds correspondent of the Colliery Guardian had spoken of South Staffordshire as having to go over ground which had been left by Yorkshire ten years ago. In 1861 there was a mahad been left by Yorkshire ten years ago. In 1861 there was a machine which cut, with one man, 14 yards long, 18 in, deep. If the correspondent of the Guardian could find the patentee the Institutute could find him a job in the hard coal of South Staffordshire.—

Mr. W. Survey said be did not believe that the prochine would in W. SPRUCE said he did not believe that the machine could do

Mr. W. BLAKEMORE said he was glad to see from the award that machines had in them the elements of success. the machines had in them the elements of success. The districts of Yorkshire and Staffordshire were very different, and the coal there was much softer. It was necessary that the latter district should have a hand coal-cutting machine, for some of the small collieries could not afford a machine for steam or compressed air. He proposed the adoption of the award.——Mr. Spruce seconded this, and said he picked the pit not because of the hardness of the coal, but because of its safety. He felt that Mr. Norris's patent (Manchester) was best for hard work, such as gate-roading.

After the CHAIRMAN had expressed his opinion that the large coal-cutting machines were failures, the adoption of the award was

cutting machines were failures, the adoption of the award was agreed to. There was no other business of public importance.

Telegram.—The South Staffordshire coalmasters have declared a reduction of 3s. per ton for best coal from Oct. 1.

THE PATENT COTTON GUNPOWDER COMPANY

(LIMITED)

Can SUPPLY their SMOKELESS BLASTING MIXTURE, the most power and purest explosive for QUARRIES, MINES, and CLOSE HEADINGS.

NO NOXIOUS GASES.

For terms, apply to the Secretary,—
23, QUEEN ANNE'S GATE, WESTMINSTER. THE WORKS ARE AT FAVERSHAM, KENT.

THE TAVISTOCK IRONWORKS, ENGINEWORKS, FOUNDRY, AND HAMMER MILLS,

TAVISTOCK, DEVON.
NICHOLLS MATHEWS

ENGINEERS, BRASS AND IRON FOUNDERS,
BOILER MAKERS AND SMITHS.
MAKERS OF
CORNISH PUMPING, WINDING, AND STAMPING ENGINES:
CAPSTANS AND CRUSHERS: WATER WHEELS: PUMP-WG
SHOVELS, AND HAMMERED IRON FORGINGS OF EVER

SHOVELS, AND HAMMERED IRON FORGINGS OF EVERAL DESCRIPTION.

Also of SPUR, MORTICE, MITRE, BEVIL, and other WHEELS, of any direct up to 12 feet, made by Scott's Patent Moulding Machine, without the aid of patterns, and with an accuracy unattainable by any other means.

MACHINERY for FOREIGN MINES carefully prepared.

SECONDHAND MINING MACHINERY, in good condition, always on sales

TABULAR STATEMENT OF LIFE ASSURANCE COMPANIES
FOR 1874.
Compiled by T. J. BUSE, 29, Page-street, Swansea.

Published by Messrs. Waterlow and Sons, London. Price 6d.; post free, 7d.

Reviewed by the Globe, Aug. 27; the Mining Journal, Aug. 29; the Lordon Morror, Aug. 15; the Insurance Agent, July 1; the Bullionist, Aug. 22; British Daily Post, Aug. 27; Nottingham Guardian.

MINES AND MINING.

Now in the Press, and will shortly be issued.

Now in the Press, and will shortly be issued.

SPARGO'S ANNUAL STATISTICS AND OBSERVATIONS ON THE MINES OF CORNWALL, DEVON, AND WALES.

The work will contain particulars of all the important mines in the considered to, and will be illustrated by maps and sections of the various distributions of the control of the

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In Chancery.

RAMSBOTTOM v. MORRELL.

GLOUCESTERSHIRE, IN THE FOREST OF DEAN.

TWO VALUABLE COLLIERIES, known as the RISING SUN ENGINE COL-LIERY (FREEHOLD), and UNION COLLIERY (LEASHOLD), extending together over about 520 acres, and comprising SEVERAL VALUABLE SEAMS of COAL, with good railway accommodation.

of COAL, with good railway accommodation.

The property is situate about three miles from Coleford, and four from Lydney, travered by the Bixslado and Dark Hill Valleys, and is on the Severn and Wye traverse connecting Lydney on the Bristol Channel, with Lydbrook on the Railway connecting Lydney on the Bristol Channel, with Lydbrook on the Ross and Monmouth line, a branch of which line, expected to be completed this year, runs through the property.

These collieries are well worthy the attention of coalowners and enterprising colliers, as shafts can be opened without any unusual expense, and with the certainty of finding coal, obviating the risk commonly attendant on the opening of new collieries.

MESSRS. DANIEL SMITH, SON, AND OAKLEY have received instructions TO OFFER the above VALUABLE PROPERTIES FOR ALLE, BY AUCTION, at the Mart, Tokenhouse yard, E.C., on Wednesday, September 30th, at One for Two o'clock precisely, by order of the Master of the Rolls, to whose Court this cause is attached, in Two Lots. Lot I will comprise the RISING SUN ENGINE COLLIERY, 200 acres; and Lot 2 the UNION COLLIERY, 320 acres.

Particulars and plans may shortly be obtained of Messrs. PRIOR, BIGG, CHURCH, and ADAMS, Solicitors, 61, Lincoln's Inn Fields, W.C.; of Messrs. Graham and soxs, Solicitors, Abingdon, Berks; of Marcus W. T. Scott, Esq., 4, Westminster Chambers, Victoria street; at the Bell Hotel, Gloucester; at the Mart; and of the Auctioneers, 10, Waterloo-place, Pall Mall, S.W.

MINE MACHINERY, MATERIALS, &c., FOR SALE, AT THE WEST CUMBERLAND MINE, CALDBECK, CUMBERLAND. M. JACKSON, Auctioneer, has been instructed to SELL, BY AUCTION, on the 7th day of October next, at Eleven A.M., at the West Comberland Mine, the WHOLE of the

MACHINERY, MATERIALS, &c., vis.:-

ONE Blake's STONE BREAKER, 15 ft. by 9 ft., new. IRON WORK for one water wheel, 24 in. diameter. ONE WATER WHEEL, 20 in. diameter, new; pitch pine framework for carry IRON WORKA

ONE WATER WHEEL, 20 in...
ing the same, new.

ONE 8 heads of STAMPS.
ONE 6 class of STAMPS.
ONE OF FAIN, new, best drums.
FOUR small WATER WHEELS.
FOUR rotating SLIME BUDDLES, frames, trunks, &c.

Lot of winze kibbles, shaft tackle, small chain, &c.

1 torse iron wagons.

Lot of winze kibbles, shaft tackle, small chain, &c.

4 of the 6 in. pumps.
Door and doorpieces, &c.
Smiths' tools—2 pairs of bellows, and its vices.

wood wagons. skip; 15 fms. skip road. sheaves for ditto. sneaves for ditto.
water balance wagons.
cistern for ditto.
fms. galvanised wire rope, 78 in.

dameter.
d fms. ½ in. proof chain, new.
fms. cast iron air pipes, 4 in.
fms. zinc air pipes, 4 in.
crab winch, double purchase.

Door and doorpieces, &c.
Smiths' tools—2 pairs of bellows,
auvils, vices.
1 Pooley's weighing machine, 10 cwts.
Quantity of steel, new; iron, new.
Miners' tools.
Quantity of lod iron; old scrap.
Quantity of new pitch pine, yellow
pine, and other timber.
Quantity of large culvert pipes, 18 in.
Miners' dial; levelling staff, &c. MESSRS. DAVEY AND THOMAS, Auctioneers, Redruth, ha been favoured with instructions to SELL, BY PUBLIC AUCTION, Treleigh Wood United Mines, near Old Tolgus Mine, Redruth, on Thursday, 'alth September, 1874, at Eleven for Twelve o'clock in the forencon precisely, 'following VERY VALUABLE

MACHINERY AND MATERIALS, viz.:-

MACHINERY AND MATERIALS, VIE.:—
ONE 50 in. cylinder PUMPING ENGINE, 10 ft. in cylinder, and 7½ ft. in baft: with first piece of rod and caps.
ONE nearly new 11 ton BOILER, with fittings, complete.
ONE excellent BALANCE BOB.
ONE 60 ft. SHEARS, shieves, and brasses.
ONE 10 arm CAPSTAN, with oak axle.
ONE HORSE WHIM.

PITWORK.

ONE 10 arm CAPSTAN, with oak axle.

ONE HORSE WHIM.

13 in. plunger pole, with stocking, complete.

19 in. ditto ditto.

50 fms. 12 in. main rods, complete.

15 fms. 9 in. ditto.

12 in. H piece; doorpiece; pole case; stuffing box, glands, & windbore, stuffing box, glands, & windbore, stuffing box, glands, & windbore.

15 in. plunger pole, stuffing box and glands, complete.

The sbove machinery and materials are nearly new, and of the best description, and will be sold in lots to suit the convenience of purchasers.

Luncheon at Eleven. Sale to commence at Twelve o'clock precisely.

Toview, apply to Captain JAMES BROWN; and, for further particulars, apply to the Auctioneers, Redruth.—Dated Redruth, Sept. 8, 1874.

EXTENSIVE PUBLIC SALE OF ENGINEERS TOOLS, &c., IN SEPARATE LOTS.

THERE WILL BE EXPOSED FOR SALE, at Saint Leonard's Engineering Works, Perth, lately occupied by Messrs. C. D. Young and Company, Engineers, Boiler Makers, and Contractors, an EXTENSIVE and VALUABLE ASSORTMENT of

Aule and others.

I shape the father premises, and copies of the catalogue may be a ALEXANDER WILSON, solicitor, Perth: WILLIAM STIVEN, accountant, or ROBERT MTEAR, Auctioneer, Glasgow.

Sale to commence each day at Elever o'clock forencon prompt.

TO BE SOLD, pursuant to an Order of the High Court of Chancery, made in a Cause Belaney v. Ffrench on the 14th day of February, 1874, and with the approbation of the Vice-Chancellor Sir James Bacox, by Mr. 8NAFE, at the Lion House, Wrexham, in the county of Denbigh, on Friday, the 18th day of September, 1874, at Four o'clock in the afternoon, in Three Lots, certain FREEHOLD PREMISES AND MINERALS,

Bitaate in and near WREXHAM aforesaid.

Lot 1 being a FREEHOLD MESSUAGE or DWELLING HOUSE, with the appurtenances, situate on the east side of Hope-street, Wrexham, formerly known as the Wexham Club House, now in the occupation of Messrs. Simms as yearly tenants.

Lot 2 being FOUR SEVERAL PLOTS, PIECES, or PARCELS of FREESTREET, Description of Messrs. Simms as BOLD LAND, containing 1347 square yards or thereabouts, abutting on Hill-stead and Regent-street, in Wrexham, now in the occupation of Mr. Hugh Davies, builder, his under tenants or assigns held by the said Mr. Hugh Davies, under a lease dated the 30th day of April, 1857, for a term of 99 years, from the 25th day of March, 1854, at a ground rent of 222 9s. per annum, which will be payable to the purchaser. These premises are sold subject to the said lease, and the purchaser term; and

tem; and the dotter ack rental of the premises on the expiration of the said tem; and the MINERALS lying under the PENTRE-R-FRON FARM, comprising a mineral area of 31 acres (little more or less), the farm being in the occupation of Mr. Edward Boynton as a yearly tenant at the rent of £60. This farm lies to the west of Wrexham, and about four miles distant therefrom. Particulars and conditions of sale can be obtained (gratis) in London from Mesirs, Mard, Milles, Witham, and Lamberg, 1, Gray's Inn-square, W.C.; and in Me. its, Hensman and Nicholson, 25, College Hill, Cannon-street, E.C.; and in the country from Mr. James O'Byrne, Central Chambers, 17A, South Castlestreet, Liverpool; and from Mr. Share, the Auctioneer, Lion House, Wrexham.

EDWARD BLOXAM, Chief Clerk.

Dated this 7th day of August, 1874.

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FOR SALE. LEAD MINING PROPERTY FOR SALE, BY PRIVATE TREATY. This property is situate on the HALKYN MOUNTAIN, Patrick Mines.

Patrick Mines.

Several valuable lead lodes are known to traverse the sett, from which large returns have been made at a good profit. No steam power is required.

Applications for the same to be made to Messrs. R. Evans and Co., Flint; or to Citt. 8. HARPEE, Halkyn, Holywell.

PIT SINKING AND WINDING COAL.

PIT SINKING AND WINDING COAL.

FOR SALE, and ready for immediate delivery, a 14, 18, 25, and 38 horse power PORTABLE STEAM ENGINES, with link motion, the standard of the standard stan

BARROWS AND STEWARTS, ENGINEERS, BANBURY.

PEMBROKESHIRE.-PARISH OF LOVESTON.

VALUABLE FREEHOLD MINERAL ESTATES FOR SALE. MESSRS. GOODE AND OWEN have been favoured by instructions TO OFFER FOR SALE, BY PUBLIC AUCTION, on Tuesday, the 15th day of September, 1874, at the White Lion Hotel, Tenby, at One for Two o'clock precisely, first in One Lot, and then if not sold in Four Lots, the undermentioned IMPORTANT FREEHOLD MINERAL PROPERTY:—
LOT1.—The desirable FARMS of GREAT LOVESTON and HUNGERFORD, held under lease by Mr. Henry John, containing by admeasurement 269A. IR. 14P. or thereabouts.

or thereabouts.

JAT. Henry John, containing by admeasurement 269A. IR. 14P.

LOT 2.—The excellent CORN GRIST MILL, called Loveston Mill, with comfortable DWELLING HOUSE (all in substantial repair), and SA. 2R. 38P. of good MEADOW and PASTURE LAND, held by Mr. John Beddoes under a lease for the unexpired term of eight years.

LOT 3.—The valuable FARM of MOORE, in the occupation of Mr. Thomas Friffiths, as tenant from year to year, containing 129A. 3R. 7P. of good PASTURE and ARABLE LAND.

and ARABLE LAND.

Lot 4.—The compact FARM of LITTLE LOVESTON, in the occupation of Mr. Josiah Beynon, as tenant from year to year, containing by admeasurement 46A. 3R. 26P., or thereabouts.

The above property is situate upon the great mineral basin so celebrated for its anthracite coal fields and ironstone, and lies within easy distance of a shipping port at Creswell Quay on the one side, and railway communication on the other. The main roads of the country intersect the farms.

Plans and particulars are in course of preparation, and may be obtained at the offices of Messrs. GROYNNE and STOKES. Solicitors, Tenby; or of Messrs. GOODE and OWEN, Estate Agents and Valuers, Haverfordwest.

IMPORTANT SALE OF PLANT AND MACHINERY, AND OTHER EFFECTS, AT THE BRITISH OIL WORKS, SALTNEY, NEAR CHESTER.

TESSRS. CHURTON, ELPHICK, AND CO. beg to announce that they have been favoured with instructions from Messrs. E. S. Rogers and Co., TO SELL, BY AUCTION, without reserve, on Wednesday, Sept. 16th. 1874, commencing at Twelve o'clock noon punctually, the WHOLE of the VALUABLE PLANT AND MACHINERY,

VALUABLE PLANT AND MACHINERY,
Including several large cast and wrought iron and wood store receiving and bleaching tanks; cast iron pan, to hold 2 tons; melting pan; 30 ewt. iron jacketed pan and fittings; cast iron 45 barrel still, with worm and tank; wagen boiler still, separators; wrought iron agitators; brass force pump and fittings; iron pumps, with eccentric rods; tin pumps; cast iron well; wood tank for steaming barrels; a large assortment of oil and grease casks; drum barrels; a very valuable horizontal high-pressure STEAM ENGINE, 12 in. cylinder, 2½ ft. stroke, with reversible lever and fittings, by George Rennie and Co., Glasgow; driving straps; large Cornish BOILER, 20 ft. long by 5 ft. 10 in. in diameter, with fittings complete; superheater; two weighing machines; quantity of cast-iron piping, and fittings; iron shafting and pulleys; hand screw parafin press, complete; tool chest, with stocks and dyee; coopers tools; iron and wood trolleys; wheelbarrows; Tiron for rooting; iron tramway; quantity of lamp black, pitch and cement; wood stages and ladders; the contents of the blacksmiths shop, and other miscellaneous effects.

enects.

N.B.—Catalogues may be had at the offices of the Auctioneers, Chester; and Whitchurch, Salop.

THE WHITEWELL LEAD MINING COMPANY

(LIMITED).

IMPORTANT SALE OF THE ENTIRE PLANT.

THURSDAY, SEPTEMBER 17TH, 1874.

THURSDAY, SEPTEMBER 17TH, 1874.

MESSRS WATSON AND SON have the honour to announce that they are instructed to SELL, BY AUCTION, at the works of the Whitewell Lead Mining Company (Limited), near Clitheroe, Lancashire (in consequence of the company relinquishing their operations), on Thursday, the 17th day of September, 1874, commencing at Ten for Eleven o'clock prompt, the entire MI IN IN G PLANT,

Which will be found to include FOUR IRON DWELLING-HOUSES, WATER WHEELS, WATER PRESSURE HOISTING and PUMPING ENGINES, CRUSHING MILLS, large cistern, chiefly by Whittaker, of Walton-le-Dale; wrought and east-iron pipes; about 20 tons of tram metals and sleepers; iron wagons; double-purchase winch; double-blast smiths' bellows; a varied assortment of smiths' tools, anvils, tue irons; miners' hammers, picks, drills, spades, jiggers, buddles, washing tools, and a large number of other articles associated with mining pursuits; also a quantity of office fixtures, including capital iron safe, copying press, &c.; horse gears, hay cutter, provender chests, &c., &c.

The Whitewell Mine is situate fourteen miles from Clitheroe, 14 miles from Longridge, and 21 miles from Preston.

Longridge, and 21 miles from Preston.
Catalogues may be obtained on application to the Auctioneers, North La
Auction Mart, Fishergate, Preston, on enclosing a postage stamp.

Mr. Harding, of Preston, will run a Bus to the place of sale on the day of auction, leaving Mr. Tate's, the Anglers' Inn, Poole-street, Preston, at 6:30 a.M. Fares to place of sale and back, 4s. each. To Whitewell only and back, 3s. each. Seats must be secured the day before the sale.

VALUABLE MINING PROPERTY IN THE ISLE OF MAN.

IN THE MATTER OF THE COMPANIES ACTS, 1862 AND 1867; GREAT MONA MINING COMPANY (LIMITED).

MR. J. LEES WILL SELL at the Mitre Hotel, Cathedral Yard, Manchester, on Thursday, the 17th day of September, 1874 instant, at Six o'clock prompt, subject to the conditions of sale to be then produced, all the ESTATE, RIGHT, TITLE, AND INTEREST

Whatsoever of the liquidators in the above matter, in all the LEASES of the MINES, VEINS, and BEDS of METALS and METALLIC ORES and MINE-RALS within, under, or upon all those several tracts of land, situate in the parish of Maughold, containing 300 acres, 772 acres, and 780 acres, or thereabouts, respectively, and which are now called or known by the name of the GREAT MONA MINE, together with the OFFICES and OTHER BUILDINGS creeted thereon, and the large water-wheel, with necessary pumps, drawing machinery, plant, and other effects belonging to the said mine, and which have been used for the purpose of working such mine.

ther elects belonging to the said limbe, and which have been done by harpoer for working such mine.

The same will be sold subject to the payment and observance of the royalties, ents, sums of money, and of the covenants and conditions menticned and contined in certain indentures of lease (which are each held for the term of 21 years rom the date thereof respectively), dated the 20th December, 1865, the 10th June, 869, and the 14th February, 1866, and on the lessee's part to be paid, observed, and the 14th February, 1866, and on the lessee's part to be paid, observed, and the 14th February is seen on application to the undersigned, HARLES KEARSLEY.

and performed. The leases may be seen on application to the undersigned, CHARLES KEARSLEY.

A large amount of capital has been expended in opening out the property. Several lodes have been opened out on the setts.

The mine has been inspected and favourably reported by Capts. Paul, Nancarrow, J. Kitto, W. Kitto, R. Kowe, and several other engineers of high standing. For further particulars, apply to the Auctioneer, 86, London Wall, Lendon, E.C.; or to Mr. CHARLES KEARSLEY, Solicitor, 26, Brazennose street, Manchester.

SOUTH AUSTRALIA

EXTENSIVE AND VALUABLE COPPER MINES, KNOWN AS THE "BLINMAN" AND "YUDANAMUTANA," situate about 120 miles from Port Augusta. BY ORDER OF THE TRUSTEES FOR THE DEBENTURE HOLDERS.

MESSES. BROAD, PRITCHARD, AND WILLTSHIRE have been favoured with instructions to 8UBMIT, BY AUCTION, at the Mart, Tokenhouse-yard, E.C., on Tuesday, September 29th, at One o'clock precisely, in One or Two Lots, the very EXTENSIVE and VALUABLE COPPER MINES, situate in SOUTH AUSTRALIA, about 120 miles from Port Augusta, and known respectively as

"BLINMAN" AND "YUDANAMUTANA,"

Comprising about 1100 acres, together with the engine-floors, houses, smelting-works, and all the fixed plant at present thereon.

Maps and plans of the properties, with reports of mining engineers, may be inspected at the late offices of the company, 66, Cannon-street, E.C.; and particulars and conditions of sale may be obtained at the Mart; of Messrs. Pattison, Wigg, Gurney, and King, Solicitors, 50, Lombard-street, E.C.; or of the Auctioneers, 7, Queen-street, Cheapside, E.C.

TO ZINC SMELTERS, CAPITALISTS, AND SPECULATORS. TO BE SOLD, a bargain to an immediate purchaser, for £5000 (lowest price), one of the finest ZINC MINING PROPERTIES in EUROPE, situated in the PICOS DE EUROPA, province of SANTANDER, SPAIN, comprising FIVE MINES, having a superficial area of 395,000 square

metres.

The mineral is abundant, of excellent quality; the calamine, when calcined, yields 60 per cent. of metallic zinc, and the lead, which is found in considerable quantities, yields 75 per cent. A road has been made to the mines by the projectors at a cost of 50,000 fr., and there is a good honse, workmen's cottages, blacksmiths shop, stable, &c., which together cost 15,000 fr.; also THIRTY ACRES of good FREEHOLD LAND.

blacksmiths shop, stable, &c., which together cost 15,000 fr.; also THIRTY ACKES of good FREEHOLD LAND.

The titles are a direct Government concession, free of all royalties, to purchaser for ever. A good shipping port is within easy distance, and labour is cheap and abundant. With spirited working under judicious management this property is capable of producing a net profit of at least £10,000 a year. Immediate possession given.

Address, Mr. Woods, Santander, Spain.

TO CAPITALISTS.

R SALE, — IN NEW SOUTH WALES, —
1340 ACRES TIN LANDS,—Lode and Stream.
2430 ACRES COPPER LANDS (portions freehold).
2112 ACRES IRON AND COAL.
2250 ACRES COAL (on sea coast).
4000 ACRES COAL (inland, on railway line).
200 ACRES KEROSENE SHALE.
200 ACRES PLUMBAGO. FOR SALE.

200 ACRES PLUMBAGO.

200 ACRES PREHOLD GOLD DEPOSIT (Brown's Creek).

The above properties are all first-class, and on or near railway lines or water gringe, and are the very "pick" of their respective districts (being some of the tables).

first selections made).

Liberal terms, either as to purchase or working on royalty, will be given to parties able to carry out arrangements.

Apply to the owner.

CHARLES W. WEEKES, Circular Quay, Sydney, N.S.W.

THE GEM TIN MINING COMPANY (LIMITED)

THE LIQUIDATOR of the ABOVE-NAMED COMPANY, with the concurrence of the parties claiming a lien on the property, now INVITES TENDERS for the PURCHASE of the WHOLE of the PROPERTY belonging to the said company, comprising the COMPANY'S INTEREST in the LEASE of the MINE, known as

THE GEM TIN MINE

in the parish of WHITCHURCH, in the county of CORNWALL. The mine has been extensively opened, and is complete with all necessary machinery, one great advantage being the whole worked by water-power, and the cost of steam machinery saved.

saved.

The whole will be sold as a going concern, free from any lien or incumberance.

The PLANT consists of WATER-WHEELS, pitwood, and fittings in the shafts and levels, STAMPING and DRESSING MACHINERY, wagons, tramroads, and all necessary appliances, tools, &c., for carrying on an extensive mine.

Tenders to be sent to the Liquidator, as below, on or before the 26th day of September, 1874.

Permission to inspect the mine, full inventory of plant, and all particulars and onditions of sale to be obtained of —

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Tenders to be sent to Messrs. DAVIES and Co., Solicitors, Haverfordwest, on or before the 1st day of October next, and of whom the Engineer's Report on the quarry may be obtained.

Spring-gardens, Haverfordwest, August, 1874.

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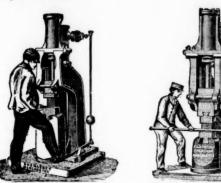
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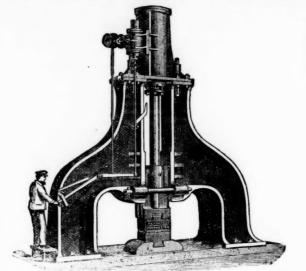
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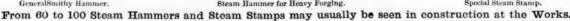
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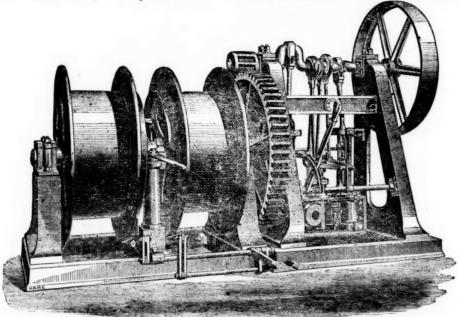
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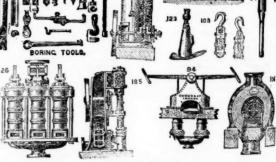
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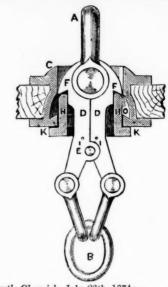


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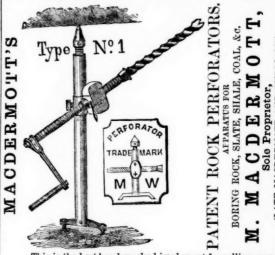
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7000 Old Treburgett, * s-l, ordinary shares 1 0 (56 56 34 0 0 9 0 0 9Feb. 1874 52 34 56 0 0 1034 0 0 1034 Feb. 1874 0 5 0 0 5 0Nov. 1871	
\$694 Pedn-an-drea, t, Redruth \$\\ \delta\$	½ ½ % 0 0 10½ 0 0 10½ Feb. 1874	1
2000 Pentruthal, t, c, Gwennap 9 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1¼ 1¼ 1½ 8 5 0 0 2 0July 1874 56 ½ 56 0 1 0 0 1 0Nov. 1873	
6000 Phœnix, t, c, Linkinhorne	2½ 1¾ 2 39 19 10 0 4 0Nov. 1872	
18000 Prince Patrick, * s-l, Holywell 1 0	0 7 0 0 2 0July 1874	1 5
1120 Providence, t, Lelant 16	3 3 4 104 12 6 0 10 0 Sept. 1872 — 0 2 0 0 2 0 Sept. 1874	
2000 Roman Gravels, l, Salop*	15 14 15 4 2 0 0 8 6Aug. 1874	1
512 South Caradon, c, St. Cleer 1 5 0	90 80 90 715 0 0 2 0 0July 1874	
5000 South Carn Brea, c, t, Illogan 1 17 6 6000 South Darren, l, Cardigan* 3 6 6	236 2 2¼ 0 10 0 0 2 6July 1872 1 1 6 0 1 6Nov. 1870	li
8771 St. Just Amargamated, & 5 10 0	0 9 0 0 4 0Nov. 1871	1.
12000 Tankerville, l, Salop*	32 3014 3114 47 8 6 0 5 0Aug. 1874	1
15000 Tretoil,* t, i, Bodmin	0 1 0 0 1 0 Mar. 1874	
15000 Van / Llanidloss* A 5 6	94 99 94 19 10 8 0 10 0 July 1874	1
\$900 W. Chiverton, l, Perranzabuloe† 10 0 0 6 612 West Tolgus, c, Redruth	70 671/2 70 1 0 0 1 0 0 Aug. 1874	l â
2048 West Wheal Frances, t, Illogan 27 3 9 512 Wheal Basset, c, Illogant 5 2 6	10½ 9½ 10 3 12 6 0 5 0Oct. 1872	
4295 Wheal Kitty, t, St. Agnes 5 4 6	7 6½ 7 11 17 0 0 2 6 Sept. 1874	
512 Wheal Busset, c, Illogant 5 2 8 4295 Wheal Kitty, t, St. Agnes 5 4 896 Wheal Margoret, t, Uny Lelant 5 17 6 10000 Wheal Mary, t, St. Dennis 6 0 80 Wheal Owlers, t, St. Just 5 76 5 6	= 82 2 3 0 10 0 May 1872 = 0 1 0 0 1 0 Jan. 1873	li
80 Wheal Owles, t, St. Just \$	75 75 80 522 10 0 4 0 0Aug. 1872	
15000 Wheal Tregoss,* t, Roche	0 1 0 0 1 0Jan. 1873	1.
12000 Wheal Russell, c, Tavistock 1 0 0 15000 Wheal Russell, c, Tavistock 1 0 0 0 15000 Wheal Tregoss,* t, Roche 1 0 0 0 10000 Wheal Whisper, t, c, Warleggan* 1 0 0 0 25000 Wicklow, c, sul, i, Wicklow 2 10 0	– 0 1 6 0 0 6 May 1873 52 9 0 0 2 6 Mar. 1872	1
FOREIGN DI	VIDEND MINES.	1
35500 Alamillos, l, Spain*†	134 134 1 3 9 0 2 0 Mar. 1874 34 12 34 0 4 3 0 1 0 May 1873	
20000 Australian c. South Australiat 7 7	11/4 0 11 6 0 2 0July 1873	5
10000 Battle Mountain, c, (6240 part pd.) 5 0 15000 Birdseye Creek, g, California 4 0	25% 23% 25% 0 14 0 0 2 6June 1874	1
6000 Bensberg, I, Germany* 10 0 0	0 17 4 0 8 0July 1873	
20000 Cape Copper Mining, *† So. Africa., 7 0 (29 28 29 16 15 0 1 0 0June 1874	2
80000 Central American Association*† 5 0 15 (15% 13% 15% 0 5 0 0 2 6June 1873 — 0 6 0 0 1 0July 1869	1
15000 Chicago, s, Utah* 10 0 0	0 16 0 0 4 0Sept. 1873	
21000 Colorado Terrible, s-l, Colorado*† 5 0 0 76162 Don Pedro North del Rey*† 0 16 0	58 1/8 3/8 2 5 9 0 2 0 Mar. 1872	
2350 Eberhardt and Aurora, s, Nevada*† 10 0 0		1
60000 Emma, g, s, Ctan (25,000 runy pd.) 20 0 t	2 134 1% 3 12 0 0 6 0Dec. 1872	12
70000 English and Australian, c† S. Aust. 2 10 0	0 3 0 0 3 0April 1872	
30000 Flagstaff, s, Utah* 10 0 0	31/4 4 2 0 0 6 0July 1873	
25000 Fortuna, l, Spain*†	4½ 3¾ 4½ 4 4 4 0 5 0 Mar. 1874 ½ ¼ ½ 0 2 4 0 0 4 Oct. 1872	
30000 Gold Run, hyd.	½ ½ ¼ U 2 4 U U 0June 1873	
15000 Linares, t, Spain 1 3 0 0	3½ 3¼ 3¾ 14 10 10. 0 7 6Mar. 1874	
7837 Lusitanian, Portugal*† (£5 shares). 3 10 (0 5 0 0 5 0 Dec. 1872	
1800 Prussian Mining & Ironworks, cl., i. 30 0		
10000 Pontgibaud, s-l, France†	21 19 21 15 16 8 0 19 9June 1874	
Anguage Section Australian Mining Co #1	15 per cent May 1874	
60000 South Aurora, s, Nevada* 5 0	54 1/2 3/4 0 14 2 0 2 0 Nov. 1873	2
15000 Sweetland Creek, g, California*† 4 0 20000 Tolima, g, s* (6000 sh. are £5 f. pd.) 4 0	31/2 8 31/2 0 11 6 0 6 6 May 1874	1
12500 Sierra Buttes, y, California* 2 0 6000 South Aurora, s, Nevada* 5 0 15000 Sweetland Creek, y, California* 4 0 2000 Tolima, y, s* (6000 sh. are £5 f. pd.) 4 0 500 Westplailan, s-l, c, Pruesia* 20 0 15000 Western Andes, s* (8000 £5 fy. pd.) 3 10	56 0 020 0 0Dec. 1878	1
NON-DIVIDENI	FOREIGN MINES.	1.
Shares. Mines.	Paid. Last Pr. Clos. Pr. Last Call.	1
20000 Anglo-Australian, g, Victoria*		.
3000 Bellavista, s, Peru* (£10 shares)		. 1
50000 Braganza, g, Brazil*†	0 15 0 Oct. 1870	1
3000 Bellavista, s, Peru* (Ele shares) 3000 Blue Tent, Ayd., California 50000 Braganza, g, Brazii*, 12000 Camp Floyd, s, Utah* 35000 Cesena Sulphur Company, Romanga, Italy* 50152 Chontales, g, s, Nicaragua* (and 12,542 of 4 6000 Clifton, s, Colorado* 10000 Crescent, g, Plumas County, California*. 100000 Cuiaba, g, Minas Geraes, Brazii*		- 1
50152 Chontales, g, s, Nicaragua*† (and 12,542 of 4	1 15s.)	1
10000 Crescent, g, Plumas County, California*		1
10000 Douglas, s, Georgetown, Col.	5 0 0Fully pd	
10000 Douglas, s, Georgetown, Col. 7500 East Sheboygan Preference* (40,000 ordinar 35000 Excelsior Hydraulic Gold Washing Co., Cali		. 1
60000 Exchequer, g, s, California* 55000 Frontino and Bolivia, g, New Granada*†	1 0 0 Fully pd	. 1
50000 General Brazilian, g*	2 0 0 34 14 1 Fully pd	
50000 General Brazilian, g* Corgetown, Col. 10000 Goctzel Tunnel Co., Georgetown, Col. 10000 Holcombe Valley, g* California. 1000 Hornachos, *c./. (£10 shares). 10000 Imperial Brazilian Collicries, Brazil* 10000 Imperial Brazilian Collicries, Brazil* 10000 Int. X. L., g, s, California* 10000 Javall, g, Nicaragua* 10000 Lanestosa, 't, z, Viscaya, Spain (£2 shares) 10000 London and California, g**	7 0 0 — I 1½ July 1873	3
6000 Hornachos, * s.l. (£10 shares)	5 0 0 — Jan. 187	4
20000 Independence, g, California*	5 0 0 3 2½ 2¾Fully pd	
50000 Javali, g, Nicaragua*	5 0 0 — Fully pd 2 0 0 10 0 — Fully pd Jan. 1870	1
12000 Lanestosa,* l, z, Viscaya, Spain (£2 shares) 65000 London and California, a*†	1 10 0 — Jan. 1876 2 0 0 —Fully pd	1
75000 Malabar, g, Colombia* (65000 issued)	1 0 0 ¾ ½ ¾ Fully pd	. 1
75000 Malabar, g, Colombia* (65009 issued) 4000 Malaga, l, Spain*		
12000 Menzenberg, c, Honnef, Germany		
14000 Montague & waverey Gold quartz-Crisming 6000 Monte Loreto, g, c, Italy* 15000 New Pacific, g, s, Nevada* 6000 New Quebrada, c, Venezuela* 6000 New Rosario, s, Mexico* 20000 New Zealand Kapanga, g, Coromandel* 10000 Newfoundland,*	5 0 0 Fully pd	
46000 New Pacific, g, s, Nevada*	0 7 6 ¼ ½ ¼Jan. 187. 5 0 0 3½ 3½ 3¾Fully pd	
20000 New Rosario, s, Mexico*	1 0 0 1 1 1 Fully pd 5 0 0 41/2 43/4 51/4 Fully pd	
10000 Newfoundland, 1	10 0 0 — Fully pd	. 1
50000 Panulcillo, c, Chili*†	4 0 0 Fully pd	. 3
80000 Pestarena United, g, Italy*† 50000 Rica, g, Colombia* (40000 issued)		
sacon Dia Tinto # a Huelus Suela		. 1
100000 Rio Tinto, c, Hueiva, Spain		1
100000 Rios Rios, 7, Huelva, Spain 100000 Rossa Grande, 9, Brazil* (£1 shares) 32500 Ruby Consolidated, s, Nevada*	0 19 0 4 6 6 4 Jan 187. July 187. 10 0 0 Fully pd	2
10000 Newfoundland,		2
		2
25000 San Pedro, c, Chili* 3000 Santa Barbara,* g, Brazil 10000 Silver Plume, s, Colorado*		2
25000 San Pedro, c, Chili* 3000 Santa Barbara,* g, Brazil 10000 Silver Plume, s, Colorado*		2
25000 San Fedro, c, Chili* 3000 Santa Barbara, g, Brazil 10000 Silver Plume, s, Colorado* \$7500 Snowdrift, s, Colorado* \$255000 St. John del Rey*! (£8 stock and its multip 2600 St. Lawrence, g, ** California. 25000 St. ar of Nevada, s** (12000 issued)	2 0 0 24 Fully pd 0 7 6 1 94 74 Mar. 187 1 0 0 - Fully pd 1 0 0 0 - Fully pd 1 0 0 0 - Style pd 1 0 0 0 - Style pd 1 0 0 0 - Fully pd 2 0 0 0 - Fully pd 2 0 0 - Fully pd	2
25000 San Fedro, c, Chili* 3000 Santa Barbara, g, Brazil 10000 Silver Plume, s, Colorado* \$7500 Snowdrift, s, Colorado* \$255000 St. John del Rey*! (£8 stock and its multip 2600 St. Lawrence, g, ** California. 25000 St. ar of Nevada, s** (12000 issued)	2 0 0 24 Fully pd 0 7 6 1 94 74 Mar. 187 1 0 0 - Fully pd 1 0 0 0 - Fully pd 1 0 0 0 - Style pd 1 0 0 0 - Style pd 1 0 0 0 - Fully pd 2 0 0 0 - Fully pd 2 0 0 - Fully pd	2
25000 San Fedro, c, Chili* 3000 Santa Barbara, g, Brazii 10000 Silver Plume, s, Colorado* \$7500 Snowdrift, s, Colorado* \$253000 St. John del Rey*† (£5 stock and its multip 2600 St. Lawrence, g, * California. 25000 Star of Nevada, s* (12000 issued) 30000 Tecoma, s, Utah* 20000 Thornbill Reef, g, Australia* 43174 United Mexican, s, Mexico*†	2 0 0	2
25000 San Fedro, c, Chili* 3000 Santa Barbara, g, Brazii 10000 Silver Plume, s, Colorado* \$7500 Snowdrift, s, Colorado* \$253000 St. John del Rey*† (£5 stock and its multip 2600 St. Lawrence, g, * California. 25000 Star of Nevada, s* (12000 issued) 30000 Tecoma, s, Utah* 20000 Thornbill Reef, g, Australia* 43174 United Mexican, s, Mexico*† 14000 Ttah, g, s-J, Utah* 26000 Victoria (Egonion)* g, Australia (25,000 sh.)	2 0 0	2
25000 San Fedro, c, Chili' 25000 Santa Barbara, g, Brazii 10000 Silver Plume, s, Colorado* 37500 Snowdrift, s, Colorado* 2253000 St. John del Rey*t (£5 stock and its multip 26000 St. Lawrence, g, *California. 25000 Stor of Newsda, s* (12000 issued) 36000 Tecoma, s, Utah* 20000 Thornbill Red, g, Australia* 45174 United Mexican, s, Mexico*1 14000 Utah, c, s, t, Utah* 25000 Victoria (Enodon)*, g, Australia (25,000 sh. 1 75000 Vorke Penissuis, c, bouth Australia.	2 0 0	2

111.1	TITLE OF CLITTLE	_	=		_
	NON-DIVIDEND MI	NES.		. D. Oles De	671
Share 25000	*. Mines. Aberdaunant, l, Llanidloes* Aberystwith, * s-l, Cardigan	1 0 0	La	1%1% 1%	30
10000 18000	Aberystwith, * s-l, Cardigan	1 10 0.		=	6
12000 50000	Assheton / Carnaryonshire*	5 0 0.		21/213/4 21/4	10
12000 12000	Ballycummisk,* c, Schull	1 7 0. 1 17 6.		14 3/4 1	12
25000	Belstone, * c. Devon(3000 sh. 28.60. pd.)	1 0 0.		34 34 1 36 34 36	10
5000 15000	Blue Hills, t, c, St. Agnes Bog, l, Shropshre* Bowden Hill, * mn (7000 sh. £1 pd.) Brynambor, l, Cardigan	2 0 0.		54 36 36	50 12
12000 20000	Bowden Hill,* mn (7000 sh. £1 pd.) Brynambor, l, Cardigan	0 15 0.		= :::	3
30000 20000	Burrow& Butson,* t, c, bl, St. Agnes Burra Burra,* t,c, bl, Kenwyn Bwadrain, s-l, Cardigan* (£4 shares)	1 0 0.		76 3/4 7/6	10
5468 4896	Bwadrain, s-l, Cardigan* (£4 shares). Bwlch Consols, s-l, Cardigan* [(£5 sh.)	3 16 0. 4 17 6.	•••	= :::	12
	Cae Gynon, l, Cardiganshire*†	200.			8
80000	Cae Gynon, l, Cardiganshire*† Caldbeck Fells, l, Cumberland*	2 0 0.		= :::	8
5584	Carden* (£10 shares) Carn Camborne, c, t, Camborne Castle Gate, t, 8t. Colomb* Cathedral, t, c, Gwennap* Cefn Brwyno (lim. to £5)	5 3 6.		¥ % ¥	25
10000	Castle Gate, t, St. Colomb*	1 10 0.		11/4 11/6 11/4	
8000	Cathedral, t, c, twennap	5 0 0. 5 0 0.		= :::	6
10000	Central Van,* l, bl, Llandloes	5 0 0. 0 10 0.		36 34 36	8. 5
24051	Crenver & Abraham*† (25949 sh. £1).	2 0 0. 1 0 0.		% ¼ ¾ ¼ ½ ¼	5 2
15000 30000	Cwm Bychan,* s.l, Montgomery Cwm Elan, l, Radnorshire* Cwm Nant Ddu, * l, Montgomery Cwm Ricket and Massnant, l, Mont.*	1 0 0.			12
15000	Cwm Nant Ddu,* /, Montgomery Cwm Ricket and Maesnant, /, Mont.*	1 0 0.		= :::	3
200	Cwmystwith, i, Cardigansiniet	0 0 0.			10
15000 7500	Deer Park, t,c, Tavistock Denbighshire Consolidated, l* Ding Dong, t, Gulval Dolwen Consols, l, Cardigan*	3 0 0.		234 2 3	1
656	Dolwen Consols, J. Cardigan*	9 14 6.		8 68	6
10000	Duchy Great Consols, c, Calstock	3 0 0. 2 0 0.	••	= :::	120
15000	Dyliffe, * l, Montgomeryshire	6 00.	90		10
512	East Basset, c, Redruth†† 7. East Black Craig, * /., Scotland 2 East Boscaswell, f, St. Just East Chiverton, l, Perranzabuloe East Dolcoath, r, Illogan 1 East Dolcoath, r, Illogan 1 East Gwroylle c Camporne	3 10 0. 5 0 0.		3 13	1
8000	East Boscaswell, t, St. Just	5 0 0. 6 5 0.		136134 136	Sh
12000	East Cwm Vron, l, Llanidloes*	2 0 0. 0 0 0.		=	£
3000 6000	East Grenville, c, Camborne	6 16 6. 3 13 0.		14 1/6 1/4	
4000 50000	East Gunnislake and So. Bedford, c 1 East Llangvnog, l, Montgomery*	2 0 0.		= :::	,
80000	E. Nant-y-mwyn,* l, Brecknockshire.	0 10 0.		1	
15000	East Llangynog, t, Montgomery* E. Nant-y-mwyn,* t, Brecknockshire. E. Tywarnhaile and Croft Prince, t, c. East Van, t, Llanidloes* Excelsior, t, c, Stoke Climsland		01	1 % 1%	
12000	Execusion, o, o, accura	8 0 0.			
12800	Flintshire,* l Florence and Tonkin United* l Franco Consols, t, c*			=	1
5000	Franco Consols, t, c** Frank Mills, t, Christow Fronvellan, t, Mont.* [4000 sh. fy. pd.] (Furze Hill, t, Tavis.*	16 0. 0 15 0.	4.0	_ **	
18000	Furze Hill, t, Tavis.*	1 0 0.			
3950 5000	Gawton, c, Tavistock	2 10 0.		_ * * * *	,
12500	Gawton, c, Tavistock Gem, t, Whitchurch Gilfach, s-l, Llangadock Glan Severn, s-l, Flintshire	2 0 0.	**	= :::	1
30000	TRISUIF, C"			= :::	
128 12000	Gluvian Moor, s-l, St. Columb	1 5 0.			
7500	Gorsedd and Celyn Level, l, Flint Great East Foxdale, l, Isle of Man	0 0.		134134 134	
10000	Great East Foxdale, l, Isle of Man Great Mountain, s-l, Carnarvon* Great Retallack, s-l, b, Perranzabuloe Great Snaefell, l, Isle of Man	8 0.			
25000	Great Snaefell, l, Isle of Man	15 0. 2 10 0.	••	= :::	
4096	Gt. West Chiverton, s-l (8000 shares). Great Wh. Lovell, t, Wendron Gunnislake (Clitters'), t, c	2 15 0.		76 34 76	
19000	Islay, l, Scotland*	0 0.			
6000	Keswick United, I*	0 0.	••	¥ 1/8 1/4	
50000	Killifreth, t, Chacewater Kingston Valley, l, Cornwall Lady Ashburton, c, s-l, t, Callington .	0 0.		1%1% 1%	
12000	Ladywell,* l, Salop	10 0.		3 23/4 3	
2500 10000	Ladywell, ' i, Salop Levant, c, t, 8t. Just Lanarmon, Denbigh Llanidloes Wh. Van, * l, Montgomery	10 0. 0 0.		= :::	
20000	Llanidloes Wh. Van,* l, Montgomery	0 0.		21/4 21/2	
17000	Llanrwst, l, Carnarvon Llywernog, l, Cardiganshire Llynclys Unit., l, c, oxide, Salop	16 0.		= :::	
9000	Marke Valley, c, Caradon*	18 6.		11/8 7/4 11/8	
8000	All Marke Valley, c, Caradon* Medlyn Moor, t, Wendron Medlanear, c, Hayle* Menhenniott,* s.{ Menhenniott,* s.{ Menhenniott,* s.{ Menhenniott,* s.{ Montgles, t, c, Kea. Nanty, l, Montgomeryshire* Nanty, l, Montgomeryshire* New Beldon, l, Northumberland* New Beldon, l, Worthumberland* New Last Lovell, t, Wendron New Hendra t, Breage	4 0 0.		= :::	
12500 25000	Menhenniott, * s-l	0 0.	**	= :::	
6144	Nangiles, t, c, Kea			_% ¥ %	
2000	Nant y-Ricket, c, l, Montgom	0 0.		=	
10000 8000	New Dolcoath, t, c, Camborne*	0 0.	٠.	11/8 1 11/6	
				1 76 1	
6400	New Pembroke, t, c, Par Station	0 0 6 4 8		76 34 74	
5000 3000	New Rosewarne, c, Gwinear	7 0. 5 0 0.	**	- 36 36 36 	1
3200	New South Merllyn, l, Flint*	10 0.	0.0	= :::	200
5000 1200	New West Rosewarne, t, Gwinear	7 10 0.		2 11/2 2	120
4000 1200	New Hobb's Hill, t, Liskeard* New Pembroke, t, c, Par Station New Rosewarne, c, Gwinear New Silver Rake, s,t, Flintshire New South Merllyn, t, Flint* New St. Blazey, *t, Cornwall New West Rosewarne, t, Gwinear New Wh. Grylls, t, Perranuthnoe New Wh. Seton, c, Camborne North Busy United, t, c, Kenwyn North Laxey* North Laxey*	16 8.		34 . 1/2 3/4	
512 25000	North Busy United, t, c, Kenwyn North Laxey*		**	= :	
10000	North Pool, c. Illogan* (Reserve 2500)	0 0.		1%. % 1%	1
1000	North Rosewarne, c, Gwinear North Treleigh Wood, t, Redruth* North Treskerby, c, St. Agnes	1 12 6. 1 0 0.	**	2 . 13/4 2	
5936	North Treskerby, c, St. Agnes	8 10		11/6 1 11/6	
12000	Old Batholes, * l, Salop			2 11/2 2	1
2500	Old Tincroft, c, t, Illogan*	1 11 6.		1½1½ 1½ ½ ¾ ½	
16923	Parys Mountain,* c, Anglesea	3 0 0. 6 15 0.		½··· ¾ ½	1
12000	Parbola, f, Gwinear Parys Mountain, *c, Anglesea Penhale Wheal Vor, t, c, Helston	0 0. 2 0 0.		13411/4 13/6	
12000	Pen-yr-Henblas, l, North Wales*	1 0 0.		- × × ×	
3000	Phenix, s-l, Perranzabuloe				
12000 2000	Perkins Beach, , Satop Phomix, s-l, Perranzabuloe Plynlimmon, t, Lianidloes* Polbreen, t, St. Agnes Prideaux Wood, t, Lianivery Prince of Wales, c, Calstock]	8 10 0.		- %··· ¾ ¾ - ···	
2000	Prince of Wales, c. Calstock!	5 0 0. 1 4 0.	**	34 34 34	
12000	Rhydtalog, s-l, Cardiganshire	1 0 0.	**		
15000 5869	Rhydtalog, 8-l, Cardiganshire Rookhope Valley, l, Durham* Rosewall Hill and Ransom, t	4 5 0.		36 16 36	
	Rosewarne United, c, t, Gwinear	1 10 0. 0 6 0.	**	_ ½ ¾ ½	
6123	South Condurrow, t, c, Camborne !	8 5 8. 1 0 0.		4 3 31/4	
512	South Dolcoath, e, t, Redruth 1	2 5 0.	**		
6000 5000	South Fowey, t, c, Tywardreath South Great Work , t, St. Hilary	2 6 6. 2 14 0.			
12000	South Kit Hill, t, Callington*	1 0 0. 0 12 6.		= :::	
700	South Margaret, t, Ludgvan	1 10 0. 1 0 0.		34 36 34	
18000	Russell, *i, bwymoringe South Condurrow, t, c, Camborne] South Devon, f-c., Tavistock	1 10 0. 6 0 0.	••	8 36 34	
6000	South Tolcarne, t, c, Camborne	0 15 0.		36 36 36	
3000	South Ward, l, Beerferris	3 0 0. 3 10 10		1½ 1 1½ 13 11 13	
937 496	South Wh. Frances, c, Illogant 4	4 3 9.		13 11 13 11 9 11	
4000	South Roman Gravels, I, Salop* South Roskear, I, c, Camborne. South Tolkarne, I, c, Camborne. South Van,* I, Montgomeryshire South Ward, I, Beerferris South Wheal Crofty, c, Illogan. South Wheal Kitty, I, St. Agnes St. Agnes Consols, I* St. Hazey I.* (£2 10s. shares) St. Breward Consols, I* St. Dennis Consols, I, St. Dennis St. Layes Consols, I, St. Dennis St. Leves Consols, I, St. Dennis St. Leves Consols, I, St. Lives St. Lives Consols, I, St. Lives	0 5 0. 5 0 0.		556 536 556	1
14000 62000	St. Breward Consols, * c, s, Cornwall.,	2 0 0.		11/411/4 11/4	
20000	St. Dennis Consols, t, St. Dennis St. Ives Consols, t, St. Ives	1 0 0. 2 15 0.		8 78	1
6000	St. Ives Consols, t, St. Ives	2 0 0		=	
12000	Tamar Consols, s-l, Lifton, Devon	1 0 0		1 76 1	
3879	Tamar Valley, s-l, Beeralston	1 10 0		11/1 1 11/4	
4000 8596	Tin Valley, St. Neot	1 0 0			
5000	Treleigh Wood, t, Redruth	4 8 0		- 34 ··· 34 34	
547	Trelyon Consols	5 0 0		% ½ ¾ % ½ ¾	-
7500	Tresellyn, t. Altarnun	2 10 0			1
2600	Tucker's Downs, Camborne	2 0 0		156136 156	
19000	Tvllwvd.* s-l. Cardigan	1 0 0 2 17 6		34 34 34	=
20000	Van Consols, I, Llanidloes*	9 10 0)	3 5% 34	
20000	Unity Wood, t, t, Kenwyn	1 00		= :::	1
appec	TAUL CHANGE THE BUILDING THE STREET		-		1

	NON-DIVIDEND MINES—Continued.
los. Pr	Shares Mines Paid, Last D.
4 1%	30000 Welsh, l, Cardigan* 1 0 0 1 0 0
4 -79	6000 West Basset, c, Illogan†1
	100 West Condurrow, t,c, Camborne 5 0 0 3 8%
4 214	100 West Condurrow, t,c, Camborne
4 -74	5000 West Godolphin, t, c, Breage 1 10 6 2 2 3 3
	5000 West Godolphin, t, c, Breage
34 1	12000 West Goginan, *Cardiganshire
74 2/	15000 West Great Work, t, Breage*
4 %	12000 West Maria & Fortescue, t, c, Lamer. 4 9 0 1
12 84	12000 West Maria & Fortescue, t, c, Lamer. 4 9 0 1 0 0 1 0 0 1 0 0
16 3/8	12000 West Pant-y-Go, s-l, Flint* 1 0 0 "
	3000 West Phoenix, t, Linkinhorne
¥ 3/4	
4 78	12000 West Tankerville, l, Salop*
	6000 West Wheal Gorland, t, c
	4000 Wheal Agar c. Illogan 10 0 0 11/ 11
4 14	6000 Wheal Argus, t, Sancreed 0 10 0 4 1/2 1/2
	25000 Wheal Arthur, t, c, Calstock* 1 0 0 "
6 114	741 Wheal Rasset and Grvils, L 9 15 6.
	512 Wheal Buller, c, Redruth 1 55 5 0 5
	6000 Wheal Coates, t, St. Agnes
	6000 Wheal Crebor, c. Tavistock
4 36	8400 Wheal Emma, t. c. Buckfastleigh 1 10 0.
4 36	5179 Wheal Grenville, c, Camborne* 9 2 6 412 4 42 4 42 4 42 2 13 10. 22 4 42
	12000 Wheal Jewell, c. Marazion
	12000 Wh. Mary Hutchings,* t, Plympton, 1 11 0 11/214 18 3000 Wheal Peevor, t, Redruth
	3000 Wheal Peevor, t, Redruth
	6000 Wheal Prussia, t. Redruth 2 0 0 74
	10000 Wheal Ruby, t. Ludgvan
0.0	4568 Wheal Sparnon, t, Redruth 4 0 0
2 3	
68	4096 Wheal Unv. t. c. Redruth 12 9 6 22 14.
	8000 Wheal Vincent, t, Alternum 1 111 0 4 11200 Willoughby, l, Llanrwst 210 0 210 0 11000 Wood Close & Polgouth, t, St. Mew. 210 0
	12000 Willoughby, I, Llanrwst
	10000 Wood Close & Polgouth, t, St. Mew. 2 10 0 "
	10000 Wood Close & Polgooth, t, St. Mew." 2 10 0 10000 Wye Valley, l, Montgomery"
1 3	1200 Zennor, t, Cornwall 5 0 0
	IRON AND COAL COMPANIES.
4 136	
	El00 John Abbot and Co. [L.] 275 0 0
	15 Albien Steel and Wine Co ft. 1 10 00 1114
6 34	5 Alltami Colliery Co. [L.] 5 0 0 par
	100 Ashbury Co. [L.] 90 0 0 45 46" P.
	10 Bagnall, John, and Sons [L.] 10 0 0 31/2 21/4
	10 Bagnall, John, and Sons [L.] 10 0 0 3½ 2½ di. 10 Benhar Coal Co. [L.]
	To Beillar Coar Co. [23]
6 11/8	
	10 Bilson & Crump Meadow Coll. Co.[L.] 7 0 0 17 14 14 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16
	4 Blaen Cwmbach Coal Co. [L.] 4 0 0 16 18 18 18 18 18 18 18 18 18 18 18 18 18
	bo Blaenavon from and Steel Co. [2.] of 10 o
	50 Blochairn Iron Co. [L.]
4 W	
6 1/4	30 Ditto dittoB 30 0 0 21½ 22" [m. 50 Rowling Iron Co. [L.]
	50 Bowling Iron Co. [L.]
	50 Britannia Ironworks [L.]
4 34	
	100 D 7 T 1 - 1 C - 1 T 1 70 0 0 0
	100 Brown, John, and Co. [L.]
	10 Cardiff & Swansea St. Coal Co. [L.]. 4 0 0 54 36 die

	THOM AND COAL CO			TI	i,	_	
hare	s. Company. John Abbot and Co. [L.] Albion Steel and Wire Co. [L.]	P	uid.		,	Price,	
100	John Abbot and Co. [L.]	£75	0	0		-	
15	Albion Steel and Wire Co. [L.]	10	0	0	111%	11	, dia
- 5	Alltami Colliery Co. [L.]	5	0	0	par 45	1	pa.
100	Alltami Colliery Co. [L.] Ashbury Co. [L.] Bagnail, John, and Sons [L.] Benhar Coal Co. [L.] Bibbas Iron Ore Co. [L.]	90			45	40	AL.
10	Bagnall, John, and Bons [L.]	10	0	0	314	23	die
10	Benhar Coal Co. [L.]	10	v	U	4	43	pm.
50	Bilbao Iron Ore Co. [L.]	35	0	0	214	2	pm,
10	Blison & Crump Meadow Con. Co.[12	.] 7	0	0	- 36		Diffe
4	Blaen Cwmbach Coal Co. [L.]	97	0	0	34	1	i pp.
50	Blaenavon Iron and Steel Co. [L.]	37	10	0		-	
50	Blochairn Iron and Steel Co. [L.] Blockairn Iron Co. [L.] Bolckow, Vaughan, and Co. [L.]A Ditto dittoB	15 35	0	0	00	-	
100	Bolckow, Vaughan, and Co. [L.]A		0	0	22	223	6 pm,
30 50	Ditto dittoB Bowling Iron Co. [L.] Brynkinalt Collieries [L.] Britannia Ironworks [L.]	30 50	0	0	21½ 25	22	pm.
5	Bowling Iron Co. [L.]	- 5	0	0	20	30	Pm.
80	Brynkinait Comeries [L.]	25	0	0	-	-	
50	Pritannia fromworks [L.]	40	0	0	19	1	pm,
100	Brown, Bailey, and Dixon [L.] Brown, John, and Co. [L.] Cammell and Co. [L.] Cannock and Huntingdon Coal [L.].	70	0	0	2	18	dia,
100	Cammell and Co. [L.]	80	- 0	0	7	61	ph
20	Cannock and Huntingdon Coal II. 1.	2	0	0		63	die,
10	Cardiff & Swansea St. Coal Co. IL.1.	4	0	0	758	-	22
10	Cardiff & Swansea St. Coal Co. [L.]. Cardigan Steel and Wire Co. [L.]	5	10	0	78	85	dia
10	Central Swedish Iron and Steel [L.]	. 10		0			dia
5	Chapel House Colliery	5	0	0	1/	dis.	64-
50	Charlton Iron Co. [L.]	35	0	0	2012	101	par dis,
50	Chatterley Iron Co. [L.]	40	- 0	0	121/	111	di.
10	Chillington Iron Co. [L.]	10	0	0	41/	314	di.
1	Chillington Iron Co. [L.]	1	0	0	-/2	0/5	dia,
10	Consett Iron Co. [L.]	7	10	0	1736	20	No.
1	Consett Spanish Ore [L.]	1	0	0	34	3	dia.
50	Cooke William, and Co. [L.]	20	0	0	11	10	die
20	Clee Hill Colliery Co. [L.]	8	0	0			Das.
10	Davis's Merthyr Colliery Co. [L.]	10	0	0	/-	-	
50	Davy Brothers [L.] Ebbw Vale Co. [L.] Englefield Colliery Co. [L.]	22	10	0	16	16%	pe.
82	Ebbw Vale Co. [L.]	29	0	0	5%	51/	dia
10	Englefield Colliery Co. [L.]	10	0	0	/-	-	(AM)
6	Kairbairn Engineering	5	0	0	21/4	2	die
10	General Mining Ass. [L.] (£1 returned Glasgow Port Washington [L.]	d) 9	0	0	81/2	914	-
10	Glasgow Port Washington [L.]	6	0	0	4	31/2	die.
20	Great Western Coai Co. [L.]	. 17	0	0		-"	-
2	Gwyngwillim Colliery Co. [L.]	2	0	0		-	
15	Hopkins, Gilkes, and Co. [L.]	10	0	0	3	2	die,
10	Great Western Coai Co. [L.] Gwyngwillim Colliery Co. [L.] Hopkins, Gilkes, and Co. [L.] Ifton Rhyn Colliery Co. [L.]	5	0	0	7	8	dis.
10	Ince Rolling Mills [L.]	8	0	0		-	
50	Knowles, Andrew, and Sons [L.] Llay Hali Coal, Iron, & Firebrick [L.] Littledean Woodside Coll. Co. [L.]	17	0	0	34		pm.
10	Llay Hali Coal, Iron, & Firebrick [L.]	10	0	0	par		pm.
5	Littledean Woodside Coll. Co. [L.]	5	0	0		-	
10		10	0	0	2 di		100
50	Llynvi, Ogmore, & Tondu Co. [L.]	42	0	0	8	7	die
13	Llynvi, Ogmore, & Tondu Co. [L.] LlynviVailey Col. Co. [L.] 15 p.c. pref Lydney and Wigpool Iron Ore [L.]	. 10	0	0		-	
10	Lydney and Wigpool Iron Ore [L.]	7	5	0	21/2	1%	Ċi,
10	Marbella Iron Ore Co. [L.]	10	0	0		-	
10	Marbella Iron Ore Co. [L.] Merry and Cuninghame [L.] Mersey Steel and Iron Co. [L.] Monkland Iron and Coal Co. [L.] Monkland Iron and Coal Co. [L.] Mwyndy Iron Co. [L.] Mwyndy Iron Co. [L.] Navy. Cib. and Blaina (S. p. 6, p. p. f.)	3	10	0	36 0	lis. p	T.
6	Mersey Steel and Iron Co. [L.]	5	0	0		-	
5	Mold Argoed Colliery Co. [L.]	8	0	0	par		pB.
10	Monkland Iron and Coal Co. [L.]	10	0	0	61/4		ds.
10	Midland Iron Co. [L.]	5	0	0	6	8%	All.
4	Mwyndy Iron Ore [L.]	3	10	0	-	11/2	d18*
100			0 0	0	49	50	
10	Neepsend Rolling Mills [L.]	3	0	0	X	tis. pr	die
1	Nerbudda Coal and Iron	0	, 8	0	74	71/6	lie.
0000	New Shariston Collieries [L.] Pret	1		0 0	. 0%	178	1196
10	Newport Abercarn Coal Co. [L.]	4		0		_	
10	No. of Ireland Iron Company [L.] Northmptn. Coal, Iron & Wagon [L.]	3	0	0		_	
10	Northmptn. Coal, Iron & Wagon [L.]	8	0	0	21/	1%	No.
10	Northfield Iron Co. L	- 6	0	0	0	81/4	1
35	Palmer's Shipbuilding and Iron [L.]	25	0	0	22%	25 1	7
100	Parkgate Iron Co. [L.] Patent Shaft and Axletree [L.]	65		0	5 8	% pm	11
20	Patent Shart and Axietree [L.]		0	0	23/4	21/4	N.
20 50	Patent Sinit and Arieree [L.] Pelsall Coal and Iron J. J. Phemix Bessemer Co. [L.] Rhondda Merthyr Coa Co. [L.] Rhymney Iron Co. [L.] Sandwell Park Colliery Co. [L.] Ditto B.	15		0	-74	-70	
	Phondda Morthun Cool Co. II. 1	50	0	0		-	
50 50	Phymney Iron Co II.	50	0	0	12	10 d	á
	Sandwell Park Colliers Co. II.	100		0	-	-	
100 50	Ditto	100	0	0		-	
	Chetta Inon Co. IT. 1	50	0	0	20	29% 1	3
100	Shoothyidge Iron and Coal [L.]	25	0	0	2714	30 p	0
	Sheepbridge Iron and Coal [L.]	2	10	0	271/4 1/4	% P	2
10 50	Sheffield Forge and Rolling Mill [L.] Silkstone & Dodworth Cl. & Iron[L.] Silkstone Fall Colliery Co. [L.]	17	0	0	par 2 di	% P	9
5	Silkstone Fell Colliery Co. II. 1	5	0	0	2 di	s, par	
20	Skerne Ironworks [L.]	20	0	0		-	
50	Semerostro Iron Co. 11.1	50		0		-	
20	Somorrostro Iron Co. [L.]	17	0	0		-	
	DORRIT LLUICO COM CO. [79:1	40	0	0	521/2	55	12
100	Staveley Iron and Coal Co. [L.]	60					

10	Newport Abercarn Coal Co. [L.]		0 0		_	
10	No. of Ireland Iron Company [L.]	3	0 0		-	
10	Northmptn. Coal, Iron & Wagon [L.]	8	0 0		-	at.
	Northfield Iron Co. [L.]	6	0 0	21/4	11/4	OM,
35	Palmer's Shipbuilding and Iron [L.]	25	0 0	9		dis
100	Parkgate Iron Co. [L.]	65	0 0		25	
20	Patent Shaft and Axletree [L.]	10	0 0		5% pr	0.13
20	Pelsall Coal and Iron J.]	15	0 0	23/4	21/4	ON
50	Phœnix Bessemer Co. [L.]	40	0 0		-	н
50	Rhondda Merthyr Coal Co. [L.]	50	0 0		10	15
50		50	0 0	12	10	0
100	Sandwell Park Colliery Co. [L.]	100	0 0		-	П
50	DittoB.	10	0 0		-	
50	Shotts Iron Co. [L.]	50	0 0	20	221/4	
100	Sheepbridge Iron and Coal [L.]	55	0 0		30	19
10	Sheffield Forge and Rolling Mill [L.]	2	10 0	*	ž,	P
	Silkstone & Dodworth Cl. & Iron[L.]	17	0 0	par	×	
5	Silkstone Fall Colliery Co. [L.]	5	0 0	3 (1)	s. P	N/
20	Skerne Ironworks [L.]	20	0 0		-	П
	Somorrostro Iron Co. [L.]	50	0 0		-	
	South Wales Coal Co. [L.]	17	0 0		55	
100	Staveley Iron and Coal Co. [L.]	60	0 0	521/2		7
100	Ditto ditto New	10	0 0	9	9%	74
	Stranton Iron and Steel Co. [L.]	7	0 0	-	7	
	South Cleveland Ironworks [L.]	20	0 0	9		3
100	Thames Iron Company	100	0 0	9	11	P
734	Titanic Iron and Steel	5	0 0		-	8
20	Ulverston Mining Co. [L.]	10	0 0	1	1/4	٦
	United Bituminous Collieries [L.]	1	0 0		-	
	Vancouver Coal [L.]	6	0 0	1%	21/4	2
100	Vickers, Sons, and Co. [L.]	100	0 0	35	80	η
	Welsh Ironworks Co. [L.]	80	0 0		89	d
95	W. Cumberland I. and Steel [L.]	20	0 0	636	975	P
	West Mostyn Coal [L.] (12 p.c.pref.)	2	0 0	78	75	η
	West Swansea Colliery Co. [L.]	3	0 0		411	A
	Whitehaven Iron Co. [L.]	10	0 0	5%	978	1
100	Wigan and Whiston Coal Co. [L.]	70	0 0		-	1
100	Wigan Coal and Iron Co. [L.]	75	0 0		-	4
100	Triguil com and aren cor [In]					ı
	WAGON COMPA	NIE	S.			ı
		10		1736	17%	
	Birmingham Wagon Co. [L.]	10		434	4%	ð
20	British Wagon Co. [L.]	10	0 0	41/	4%	30

	WAGON COMPAN	HE	S.			17
10	Birmingham Wagon Co. [L.]	10	0	0		
90	British Wagon Co. [L.]	10	0	0	4¾ 4¾ 2%	1
10	Gloucester Wagon Co. [L.]	10	0	0	4%	1
10	Metropolitan Wagon Co. [L.]	5	0	0	375	00
60	Midland Wagon Co. [L.]	50	0	0	88	90 15
90	North Central Wagon Co. [L.]	20		0	10	
10	North of England Wagon Co. [L.]	3		0	par.	3
10	Parkgate Wagon Co. [L.]	5		0		1
	Scottish Wagon Co. [L.]	10		0	par	i
20	Sheffield Wagon Co. [L.]	15		0	173	5
10	Yerkshire Wagon Co. [L.]	10	0	0	*74	•
	MISCELLANEO	US.			***	4
10	Anglo-Mexican Mint	10	0	0	81/4	-

MISCELLANI Assoc. of Land Financiers Co. [L. Copper Miners of Eng. (7 p. c. pre Diamond Rock Boring. Gen. Phos. & Chem. Works Co. [1 Claisdale Whinstone Quarry. Huntingdon Copper and Sul. Co.	10] 2 f.) 25 f.) 5 i 1	0 0 0 0 0 0 0 0 8 0 0 0	12 % di par 8%	
10 Silber Light (ord. sh.) 10 Tharsis Sulphur and Copper Co	10	0 0	25%	-

b, blende; cl, coal; c, copper; g, gold; l, lead; s, sliver; s, size.
 s-l, sliver-lead; t, tin; z, zinc.
 Limited Liability Companies: † quoted on the Stock Exchange I have paid dividends.

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